website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

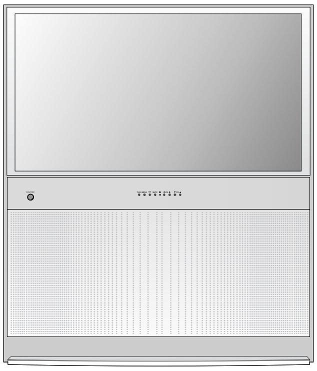
COLOR TV
SERVICE MANUAL

CHASSIS : MP-03AB

MODEL : RE/RL-40/45/56NZ60RB

CAUTION

BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Due to high vacuum and large surface area of picture tube, extreme care should be used in **handling the Picture Tube**. Do not lift the Picture tube by it's Neck.

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the Picture Tube.
For continued X-RAY RADIATION protection, the replacement tube must be the same type tube as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum.
Measure the high voltage.
The meter reading should indicate
31.5 ¡ 1.5KV
If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

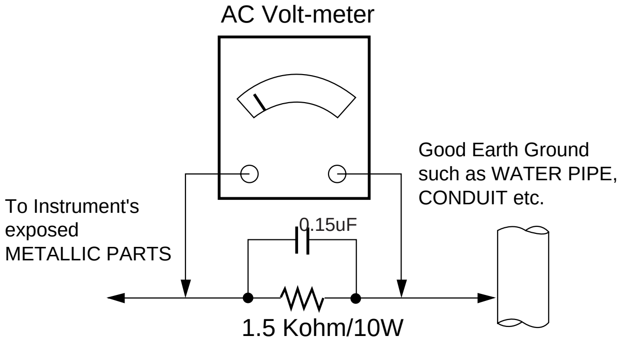
Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.
Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohm/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit


AC Volt-meter
Good Earth Ground such as WATER PIPE, CONDUIT etc.
To Instrument's exposed METALLIC PARTS
0.15uF
1.5 Kohm/10W

SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
   d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
   Do not test high voltage by "drawing an arc".
3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this receiver or any of its assemblies.
5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
6. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
9. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heatsink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices.* Examples of typical ES devices are integrated circuits and some fieldeffect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the ieads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500 ¡£ to 600 ¡£.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thorohly clean the surfaces to be soldered. Use a mall wirebristle (0.5 inch, or 1.25cm) brush with a metal handle.
   Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature. (500 ¡£ to 600 ¡£)
   b. Heat the component lead until the solder melts.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
   CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500 ¡£ to 600 ¡£)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.

c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.

d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush.
(It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heatsink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heatsink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife.
Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.
Carefully crimp and solder the connections.
CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATIONS

NOTE : Specifications and others are subject to change without notice for improvement.

■ Scope

This specification can be applied to all the Projection television related to MP-03AB Chassis.

Chassis	Model Name	Market Place	Brand	Remark
MP-03AB	RE-44NA14T/13RB RE-40/45/56NZ60RB	Europe (except France)	LG	'T'/ 'RB' : Teletext option
	RT-44NA13RB/23RB RT-40NZ60RB/RP RT-44NA43RB/RP	China, Asia, Africa, Middle East		
	RL-44NA14T/13RB RL-40/45/56NZ60RB	France		

■ Test Condition

Conduct the test as mentioned below.

1) Temperature : 25¡ 5°C
2) Relative Humidity : 65¡ 10%
3) Power Voltage : Standard input voltage (230V~, 50Hz)
   But Standard input voltage mark value is marked by model.
4) Use the parts only designated in B.O.M.,PARTS SPEC.,or drawings.
5) Follow each drawing or spec for spec and performance of parts,based upon P/N of RPL
6) Warm up TV set for more than 60min before the measurement.

■ Test and Inspection Method

1) Performance : Follow the Standard of LG TV test
2) Extra requirement

Model	Market	Remark		Appliance
RE/RL-44NA14T RE/RL-40NZ60RB	EUROPE	CE	SAFETY : CB EMI : EN55013 EMS : EN55020	OK

■ Test and Inspection Method

(★ Mark : Option Item)

No	Item		Specification	Remark
1	Recieving System	RE	PAL, SECAM-BG PAL, SECAM-DK, PAL-I	AV can be input NTSC-M
		RL	PAL, SECAM-BG SECAM-LL’	
		RT	PAL, SECAM-BG, PAL, SECAM-DK, PAL-I NTSC-M	
2	Available Channel		1) VHF : E2 ~ E12 2) UHF : E21 ~ E69 3) CATV : S1~S20 4) HYPER : S21~S41	
			LL’VHF : B,C,D	★ (RL model for Fance)
3	Input Voltage		AC 110-240V~, 50/60Hz	★ (RT model w/o China)
			AC 230V~, 50/60Hz	★ (RE,RL, China model)
4	Market	RE	Europe except France	
		RL	France	
		RT	Asia, Africa, Middle East	
5	Screen Size		44/49/54, 39/40/45/50/57 inch	
6	Aspect Ratio		4:3, 16:9	
7	Tuning System		FVS 100 Program	★ (With Teletext model)
			FVS 200 Program	★ (W/O Teletext model)
8	TUNER IF		38.9MHz, 39MHz	
9	Operating Environment		1)Temperature : -5 ~ 40 °C 2) Humidity : 30 ~ 95 %	
10	Storage Environment		3) Temperature :-20 ~ 50 °C 4) Humidity : 30 ~ 95 %	

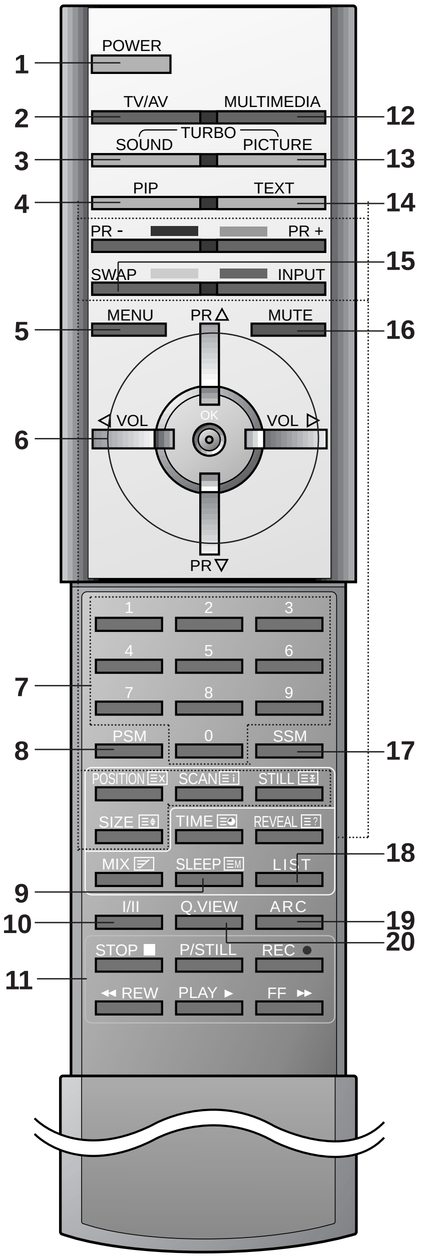
■ Feature and Function

No	Item		Specification		Remark
1	Feature	AV Input	1	V/L/R	Side
			2	V/L/R	★ (Rear, RT model)
		AV Output	1	V/L/R	★ (Rear, RT model)
		Component Input	2	COMPONENT1, L/R COMPONENT2, L/R	Rear 480i/ 480P/ 576i (1080i for CHINA)
		S-Video Input	2	Y/C	side 1, Rear 1
		SCART	3	Full SCART (with RGB Input) : 1 Half SCART : 1 (AV In/Out) Half SCART ; 1 (AV In, YC In)	★ (Rear, RE,RL model)
2	key	Local Key	POWER, MENU, VOL(◀,▶), PR(▲,▼) TV/AV, OK, MUTE (W/O Index)		Front ★ INDEX (With Index)
		Remocon	NEC Code		
3	Picture	PSM	Dynamic/ Standard/ Mild/ Game/ User		
		User Control	Contrast/ Brightness/ Colour/ Sharpness/ Tint		Tint : NTSC system only
		DRPC	On/ Off		★
		VM	1/ 2/ 3/ 4		
		Convergence	1[+] Point/ 9[+] Point Auto Convergence (option)		★ 3*3 EDC
4	Sound	SSM	Dolby Virtual/ Flat/ Music/ Movie/ Speech/ User		★ Dolby virtual (Option)
		AVL	On/ Off		
		DBS	On/ Off		
		TV Speaker	On/ Off		
		Balance	L 50 ~ 0 ~ R 50		
5	Timer	Clock	-- : -- AM		
		Off time	-- : -- AM Off (On)		
		On time	-- : -- AM Pr 1 VOL 30 Off(On)		
		Auto sleep	On/ Off		
6	Special	Language	Multi language		★
		Input	TV/ AV1/ AV2/ AV3/ AV4/ S-VIDEO4/ Component1/ Component2		★ S-VIDEO4 (EU ONLY)
		PIP Input	TV/ AV1/ AV2/ AV3/ AV4/ S-VIDEO4		★ S-VIDEO4 (EU ONLY)
		child lock	On/ Off		
7	Etc.	Convergence	MANUAL ADJUST Auto Adjust		★
		Comb Filter	Digital comb filter		
		SVM	O		
		ARC	4:3/ 16:9 (4:3 Model) 16:9/ 14:9/ ZOOM/ AUTO/ 4:3 (16:9 Model)		★
		ACMS	O		★
		Auto Off	On/ Off		
		Teletext	TOP/ FLOF/ LIST		★

CONTROLS DESCRIPTION

All the functions can be controlled with the remote control handset. Some functions can also be adjusted with the buttons on the front panel of the set.

Remote control handset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POWER
TV/AV
MULTIMEDIA
TURBO
SOUND
PICTURE
PIP
TEXT
PR -
PR +
SWAP
INPUT
MENU
PR△
MUTE
VOL
OK
VOL
PR▽
1
2
3
4
5
6
7
8
9
PSM
0
SSM
POSITION
SCAN
STILL
SIZE
TIME
REVEAL
MIX
SLEEP
LIST
I/II
Q.VIEW
ARC
STOP ■
P/STILL
REC ●
◂◂ REW
PLAY ▸
FF ▸▸

(With TELETEXT/PIP)

Before you use the remote control handset, please install the batteries. See the next page.

1. **POWER**
   switches the set on from standby or off to standby.
2. **TV/AV**
   selects TV or AV mode.
   switches the set on from standby.
3. **TURBO SOUND BUTTON**
   selects Turbo sound.
4. **PIP BUTTONS (option)**
   PIP
   switches the sub picture on or off.
   PR +/-
   selects a programme for the sub picture.
   SWAP
   alternates between main and sub picture.
   INPUT
   selects the input mode for the sub picture.
   SIZE
   adjusts the sub picture size.
   STILL
   freezes motion of the sub picture.
   POSITION
   relocates the sub picture in clockwise direction.
   SCAN
   switches on or off the programme scan mode 12 sub pictures.
5. **MENU**
   selects a menu.
6. **▲ / ▼ (Programme Up/Down)**
   selects a programme or a menu item.
   switches the set on from standby.
   ◀ / ▶ (Volume Up/Down)
   adjusts the volume.
   adjusts menu settings.
   OK
   accepts your selection or displays the current mode.
7. **NUMBER BUTTONS**
   switches the set on from standby or directly select a number.
8. **PSM (Picture Status Memory)**
   recalls your preferred picture setting.
9. **SLEEP**
   sets the sleep timer.
10. **I/II**
    selects the language during dual language broadcast.
    selects the sound output (option).
11. **VCR BUTTONS**
    control a LG video cassette recorder.

12. MULTIMEDIA
selects Component 1 or Component 2 modes.
switches the set on from standby.

13. TURBO PICTURE BUTTON
selects Turbo picture.

14. TELETEXT BUTTONS (option)
These buttons are used for teletext.
For further details, see the ‘Teletext’ section.

15. SWAP
returns to the previously viewed programme.
selects a favourite programme.

16. MUTE
switches the sound on or off.

17. SSM (Sound Status Memory)
recalls your preferred sound setting.

18. LIST
displays the programme table.

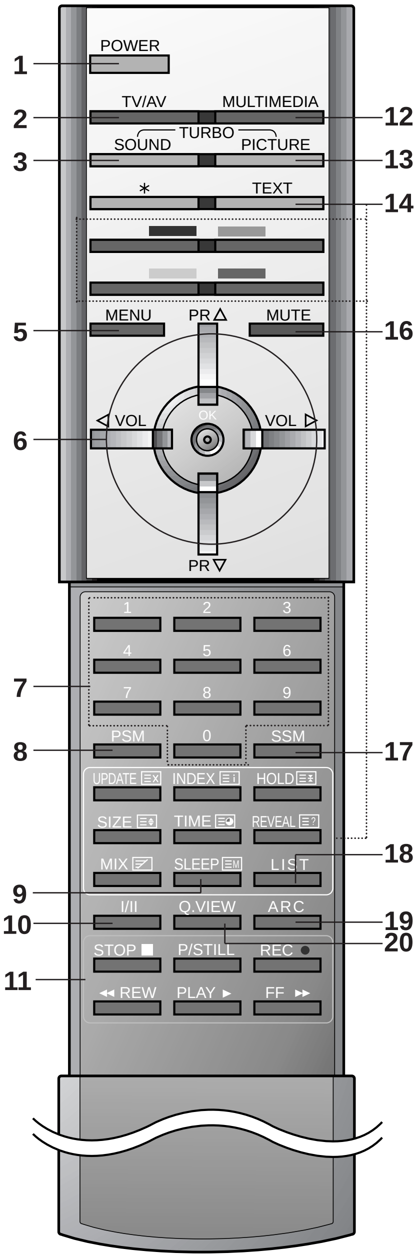
19. ARC (Aspect Ratio Control)
select your desired picture format.

20. Q.VIEW
returns to the previously viewed programme.
selects a favourite programme.

∗ : No function

COLOURED BUTTONS : These buttons are used for teletext (only TELETEXT models) or programme edit.

Note : *In teletext mode, the **PR +/-**, **SWAP** and **INPUT** buttons are used for teletext function.*


POWER
TV/AV
MULTIMEDIA
TURBO
SOUND
PICTURE
∗
TEXT
MENU
PR
MUTE
OK
VOL
VOL
PR
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PSM
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SSM
UPDATE
INDEX
HOLD
SIZE
TIME
REVEAL
MIX
SLEEP
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Q.VIEW
ARC
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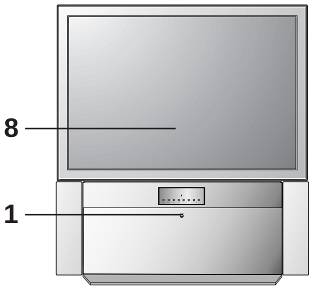
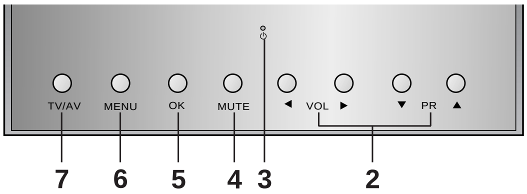
(With TELETEXT/Without PIP)

Front panel

• RE/RL-44/49/54NA13/14 series




TV/AV
MENU
OK
MUTE
◄ VOL ►
▼ PR ▲
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4
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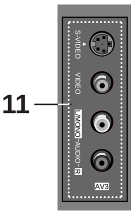
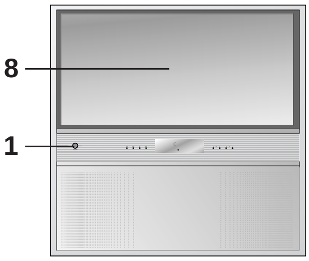
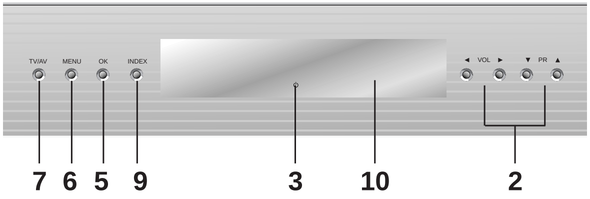

11
S-VIDEO
VIDEO
AUDIO
AV2

(Side panel)

• RE/RL-39NZ43 series




TV/AV
MENU
OK
INDEX
◄ VOL ►
▼ PR ▲
7
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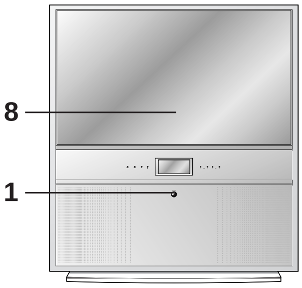
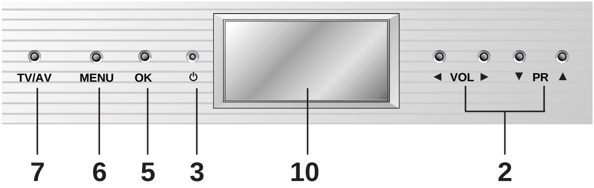
• RE/RL-44/49/54NZ23 series




TV/AV
MENU
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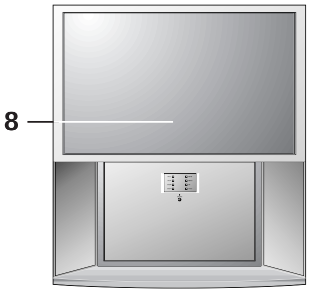
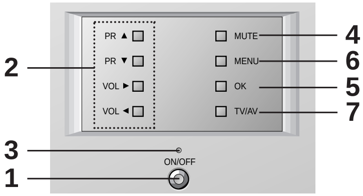
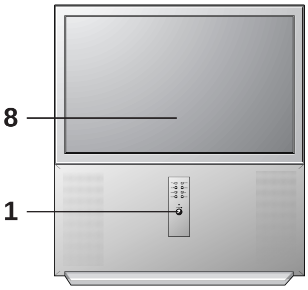
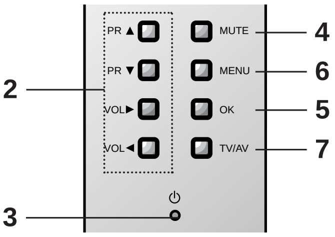
• RE/RL-44/54NA23/24 series




PR ▲
PR ▼
VOL ►
VOL ◄
MUTE
MENU
OK
TV/AV
ON/OFF
2
3
1
4
6
5
7

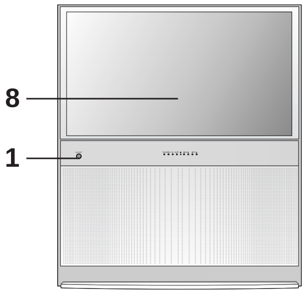
• RE/RL-44/54NA43/44 series

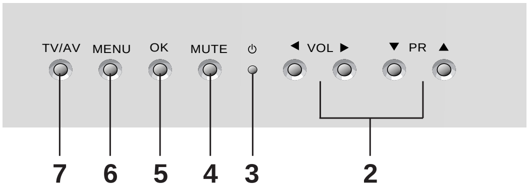


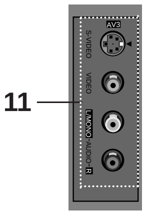

PR ▲
PR ▼
VOL ►
VOL ◄
MUTE
MENU
OK
TV/AV
2
3
4
6
5
7

Front panel

- **RE/RL-39/45/56NZ60 series**







(Side panel)

1. **MAIN POWER (ON/OFF)**
   switches the set on or off.

2. **◄ / ► (Volume Up/Down)**
   adjusts the volume.
   adjusts menu settings.
   ▲ / ▼ (Programme Up/Down)
   selects a programme or a menu item.
   switches the set on from standby.

3. **POWER/STANDBY INDICATOR**
   illuminates brightly when the set is in standby mode.
   dims when the set is switched on.

4. **MUTE (option)**
   switches the sound on or off.

5. **OK**
   accepts your selection or displays the current mode.

6. **MENU**
   selects a menu.

7. **TV/AV**
   selects TV or AV mode.
   switches the set on from standby.

8. **REMOTE CONTROL SENSOR**

9. **INDEX (option)**
   switches LED DISPLAY on or off.

10. **LED (Light Emitting Diode) DISPLAY (option)**
    illuminates brightly when the set is switched on.
    Option : Only RE/RL-39NZ43 series,
    100Hz : PAL/SECAM indicator
    Progressive : NTSC indicator
    STEREO : STEREO indicator
    SLEEP : SLEEP Timer indicator
    LOCK : CHILD LOCK indicator

11. **AUDIO/VIDEO IN SOCKETS (AV3)**
    Connect the audio/video out sockets of external equipment to these sockets.
    S-VIDEO/AUDIO IN SOCKETS (S-AV)
    Connect the video out socket of an S-VIDEO VCR to the **S-VIDEO** socket.
    Connect the audio out sockets of the S-VIDEO VCR to the audio sockets as in **AV3**.

* **CASTERS (on the bottom)**
turn and move the set easily.

ADJUSTMENT INSTRUCTIONS

These instructions are applied to only MP-03AB chassis.

Notes

1. Because this is not a hot chassis, it is not necessary to use an isolation transformer.
   However, the use of isolation transformer will help protect test instrument.
2. Adjustment must be done in the correct order.
3. The receiver must be operated for about 60 minutes prior to the adjustment.
   Pre-heatrun must be operated receiving moving pictures or 100% white pattern.

※ Never operate the SET over 10 minutes with still picture because a fluorescent material may get damage.

● Raster Slope/Focus 1th Adjustment

1. Preliminary steps

1) Apply power to the unit and switch the unit ON.
2) Receive the EU 05 CH signal.
3) Select INSTART key on the Remote Control and then select “0 RASTER ADJ” move the cursor or by pressing the key No. 0.
4) Adjust Lens Focus/Electric focus temporarily.

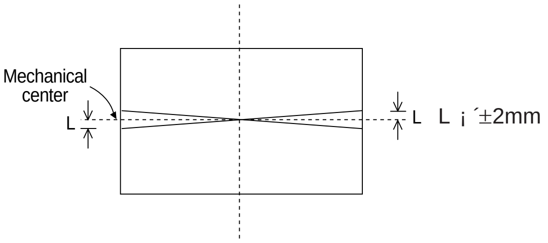
※ When select “0 RASTER ADJ” mode after entering adjustment mode with INSTART key, the convergence reset and then preparation for adjustment complete.

※ The convergence reset is possible even from convergence adjustment mode.

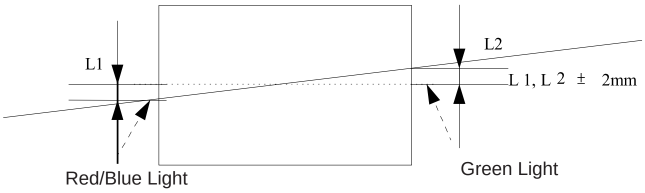
1) Enter into convergence adjustment mode: Select INSTART key on the Remote Control and then select “3 CONVERGENCE” move the cursor or using the key No..
2) Convergence reset: After press the key No. 5, press the ENTER key.
3) Adjustment mode release: Press the INSTART key

2. Adjustment

1) Display only the Green raster using lens covers to block Red and Blue.
2) Rotate the Green DY and tilt the screen like the figure below.



3) Make 2color raster with Red or Blue and Green.
4) Coincide the slope of red and blue raster to that of green.



Note) 1. When adjusting raster slope, loosen the DY and fasten it after adjusting.
2. Never rotate and adjust the fixed DY without loosing it.

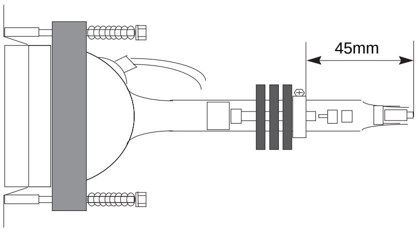
● Beam Alignment Adjustment

1. Test Equipment

Video Test Generator(801GF) or Signal Generator can produce NTSC DOT pattern(408NPS or 5518/5418 equipment)

2. Preparation

1) Heat run over 60 minutes.
2) Pre-adjust Raster slope,Raster position & Lens focus & centering Magnet.
3) Check if the Magnet is located 45mm from the end of CRT.
4) In case of using 801GF : Receive #13 DOT Pattern of VGA mode(Format #5) through PC input terminal.
   In case of using NTSC generator : Receive Dot signal through the external input terminal.

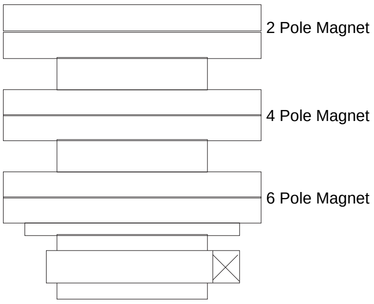


3. 2-Pole Magnet Adjustment

1) Make Green raster using lens cover.
2) Check the center position of DOT pattern on the center of the screen after turning Green focus volume left.
3) Turning green focus volume right and adjust 2-Pole magnet so the position to coincide that of item ”(2)”.
4) Adjust not to shift the screen by turning green focus volume clockwise and counter clockwise.
5) If the screen shifts, readjust (2)~(4).
6) Do the same method in Red and Blue.

4. Beam Shape (4 & 6-Pole Magnet) Adjustment

1) Do after 2-Pole magnet adjustment.
2) Make Green raster using lens cover and turn the focus volume right.
3) Make the dot in the center a perfect circle using 4 & 6-Pole magnet.
4) Do the same method in Red & Blue.
5) Fasten the Magnet after adjustment.
6) Adjust focus accurately.



● Centering Magnet Adjustment

1. Preliminary steps

1) Receive the EU 05 CH signal.(PR.1 : PAL B/G 175.25MHZ)
2) Press the keys of Remote Controller for adjustment to reset the convergence.
   a.Adjustment mode:Press the IN-START key.
   b.Data reset : Press 0 KEY.
   c.Adjustment mode cancellation : Press the ENTER key.

2. Adjustment

1) Operate adjustment about Red,Green,Blue centering magnet.
2) SGS-THOMSON Convergence assy
   Adjust until the center of blue signal is shifted up to 40mm left from that of green signal and center of red signal is shifted up to 40mm right from that of green signal with turning the centering magnet.
3) After adjustment, re-adjust convergence data and exit the adjusting mode.
   a.Adjustment mode:Press the IN_START key.
   b.Data reset : Press 0 KEY.
   c.Adjustment mode cancellation : Press the Enter key.

● High Voltage Regulation Adjustment

1. Test Equipment

Digital Multi-Meter(DMM)

2. Preparation for Adjustment.

Select picture mode to ‘DYNAMIC’ in no signal input.

3. Adjustment

1) Press the IN_START key and then press ‘1’ key.(HV ADS)
2) Connect “+” terminal(Red) of DMM to the P415 of the Deflection PCB, [+] and the “-”terminal(Black) to the P416,[-].
3) Adjust VR401 so that the voltage of multimeter to be below voltage.
   Voltage : 21.7 ± 0.1V.
4) Exit the adjustment mode by pressing the enter key

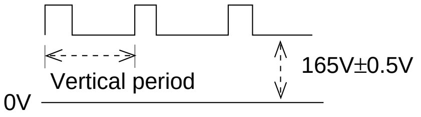
● CUT-OFF Voltage Adjustment

1. Preliminary steps

(1) Select INSTART key on the Remote Control and then select “2 SCREEN ADJ” move the cursor or using the key No..
(2) Adjustment must be operated in a dark room (simple dark room)

2. Adjustment

1) Test Equipment: Oscilloscope, 100:1 Probe
2) Connect oscilloscope to cathode of R, G, B(R926R/B/G: SCREEN ADJ on the PCB) and GND.
3) Turning Screen Volume (R/G/B) in Focus Pack and adjust R/G/B is 165V±0.5V.
4) After adjustment complete, exit the RASTER adjustment mode using ENTER key and exit the SVC adjustment mode using INSTART key.



● Deflection Adjustment

1. Preliminary steps

1) NTSC mode should be adjusted after adjusting PAL mode.
2) PAL adjustment should be done in the EU CH05,and NTSC adjustment should be done in the CH13 or Multi 48CH.
   Note, RE/RL Model(without NTSC-M system) receive CH13 in the V-3 input.
3) Press the button of Remote Controller for adjustment to reset the convergence
   Adjustment Mode : Press the IN_START key
   Data reset : Press the 0 key.
   Saving and returning Adjustment mode : Press the ENTER Key

Note. Refer adjustment items to Appendix1.

2. PAL Mode Deflection adjustment

Do not adjust H-POS,V-POS, V-LIN, S-COR, A-BOW, A-ANG, UCPIN, LCPIN, V-ASP,V-SCR in PAL mode.
Select the below each mode using CH▲, ▼ and adjust using VOL◀, ▶ on the remote controller.
At SVC mode, press the ‘0’ key get into the deflection adjustment mode.

1) H-POS (Horizontal Position Adjustment)
Adjust so that the horizontal center line of screen is in accord with the geometric horizontal center line of screen JIG.

2) V-POS (Vertical Position Adjustment)
Adjust so that the vertical center line of picture is in accord with the vertical center line of the screen.

3) HSIZE (Horizontal SIZE Adjustment)
Adjust so that the outermost left and right vertical line of the screen is accord with the last point of the frame

4) VSIZE (Vertical SIZE Adjustment)
Adjust until Sixth vertical center line from upper and lower center of the picture is accord with the last point of the frame.

5) U-VL (Upper Vertical Linearity Adjustment)
Adjust the vertical interval of screen upper.

6) L-VL (Lower Vertical Linearity Adjustment)
Adjust the vertical interval of screen lower.

7) PIN-P (Horizontal Trapezoid Distortion Compensation Adjustment)
Adjust to make the length of top horizontal line same with it of the bottom horizontal line.

8) PIN-A (Horizontal PIN Distortion Compensation Amount Adjustment)
Adjust the horizontal width of picture upper and lower is to be same.

9) V-LIN (Vertical Linearity Adjustment)
Adjust vertical size of the picture to be same with upper and lower.

10) S-COR (Vertical S Correction)
Adjust so that all distance between each horizontal lines are to be the same.

11) A-BOW (AFC BOW)
Adjust so that the vertical line at every 4 corners of the screen look like parallel with the vertical center lines of picture.

12) A-ANG (AFC Angle)
Adjust so that all vertical slope of the picture are vertical.

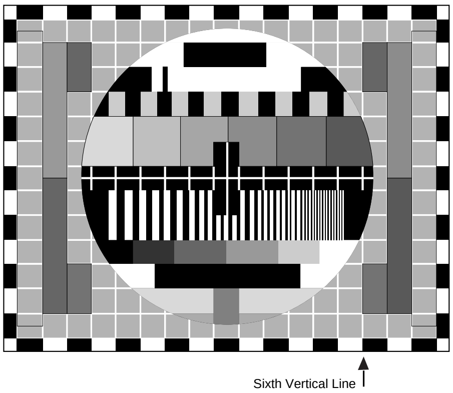
13) UCPIN (Upper Corner Pincushion)
The pin cushion adjustment of upper part

14) LCPIN (Lower Corner Pincushion)
The pin cushion adjustment of lower part

15) V-ASP(Vertical Aspect Ratio)
Adjust the vertical aspect ratio.

16) V-SCR (Vertical Scroll)
Adjust the vertical aspect position.

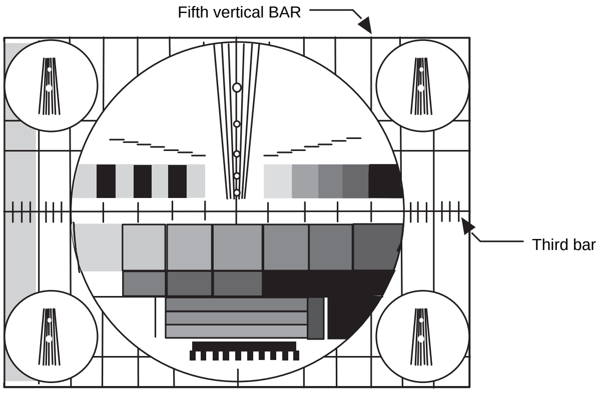
Store the adjusted data in EEPROM by pressing the ENTER key before exiting adjustment mode.
Exit the adjustment mode by pressing the ENTER key.



3. NTSC Mode Deflection Adjustment

Do not adjust V-LIN, S-COR, A-BOW, A-ANG, UCPIN, LCPIN, V-ASP, V-SCR in NTSC mode.

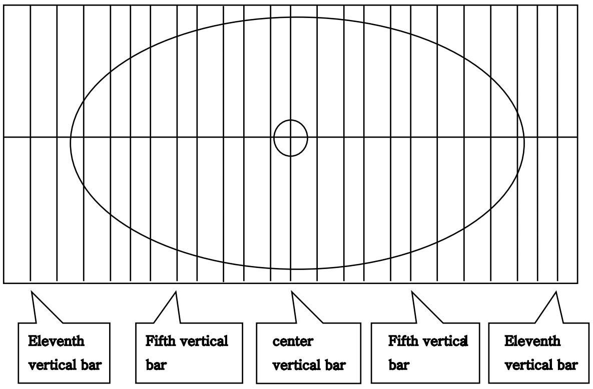
1) Adjust vertical size (V-SIZE Adjustment) until fifth vertical bar from upper and lower center screen is accord with the edge of the frame.
2) Adjust horizontal size (H-SIZE Adjustment) until third bar to indicate horizontal size of circle is accord with the edge of the frame.
3) Do other adjustments the same as in PAL mode.



4. 1080i Mode deflection Adjustment (option)

(1) Test Equipment
SETTOP BOX with 1080i output or MSPG-925LTH (Programmable VIDEO Signal Generator).

(2) Preliminary steps
1) After adjust 1080i with output of the SETTOP BOX, connects to AV-3 (Side-AV) the Y signal only which is output from SETTOP BOX with the VIDEO input terminal.
2) Select INSTART key on the Remote Control and then select "5 1080I-ADJ" move the cursor or using the key No.5.
3) Adjust vertical size (V-SIZE Adjustment) until fifth vertical bar from upper and lower center screen is accord with the edge of the frame.
4) Adjust horizontal size (H-SIZE Adjustment) until twelfth vertical bar is accord with the edge of th frame.
5) Do other adjustments the same as in PAL mode



<Fig. 3>

● Lens Focus & Electronic Focus Adjustment

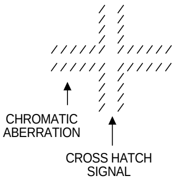
1. Preliminary steps
1) Electronic focus,Raster slope & Raster position must be pre-adjusted.
2) Heat-run over 60 minutes.

3) Receive Crosshatch pattern.
(PAL:EU07(PR 8) or NTSC:09CH(PR 13))

* Note: Loosen the butterfly nut in the lens tub slightly,being careful that it is mot loosened to the point that the lens can move out of focus.

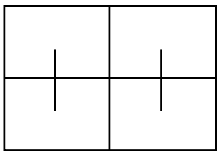
4) Adjustment must be done in a dark room(simple dark room) Be careful not to touch the lens during adjustment.
5) Make any one color raster using lens covers.
6) Rotating lens right from the front side chromatic haze occurs beside Cross-hatch line changes as follows;

Lens	Change of chromatic aberration
Red	Orange ¤AScarlet
Green	Blue ¤ARed
Blue	Purple ¤AGreen



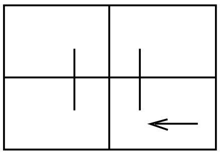
2. G-lens Adjustment

1) Rotate the lens until the chromatic haze changes from blue to red.
2) Viewing the all screen, in no case of the chromatic aberration appeared slimly within 3.5 cross-Hatch of the picture center. At this time, in case that the red chromatic aberrations bright line isn't equal, adjust Green lens so that the red chromatic aberration is appeared more than previous time.
3) Switching the signal to 13CH and operate adjustment minutely.
4) Adjust Green focus control volume of focus pack so that the external big circle's part appeared clearly.
5) Adjust accurately by repeat the upper control.
6) Especially, noting to the Green light because it influenced on picture's function.



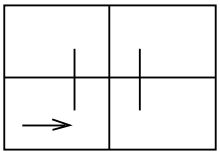
3. R-lens adjustment

1) Rotate the RED lens until the chromatic haze changes from orange to scarlet.
2) Adjust to appear Red chromatic aberration in right 3.5 cross-hatch section at center screen.Adjust the chromatic aberration so that it located center correctly.
3) Switching the signal to 13CH and adjust it as same method of Green lens.
4) Adjust as same method of Green lens with Red focus control volume of focus pack.



4. B- lens adjustment

1) Rotate the lens until the chromatic aberration of 3.5 Cross-Hatch left from center point changes from Violet to Green. Adjust the chromatic aberration to be center point between violet and green.
2) Adjust as same as method of Green lens with Red focus control volume of focus pack.



5. Focus checking

After adjustment Red,Green & Blue lens, remove lens cover and receive Cross-Hatch pattern and check the overall focus. If needed,repeat above.

● Convergence Adjustment

1. Preliminary steps

This adjustment should be performed after warming up 60 minutes.
1) Adjust after Horizontal/Vertical Raster position,Beam alignment magnet, and focus adjustments have been completed.
2) Do it always with crosshatch pattern.
3) Adjust for both PAL and NTSC system.
4) Use the JIG screen with the cross hatch pattern for Adjustment.

2. Convergence Key

1) Convergence Mode : IN_START, '3'
2) Cursor shift : ◀ , ▶ , ▲ ,▼
3) Cursor Movement/Adjustment Selection : ENTER
4) Cursor Color Selection : TV/AV
5) Adjustment mode out : IN_START

*Note: When cursor flashes,set is in adjustment mode When R,G or B selected color flashes,the set is in cursor movement mode.

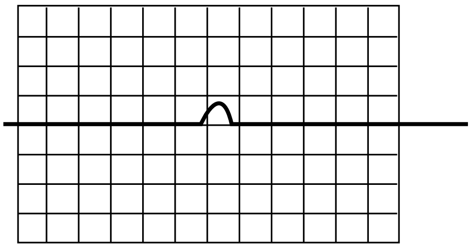
● PAL Mode Adjustment

1. Preliminary steps

1) Receive the EU 05CH signal.
2) Press the buttons IN_START, '3' of Remote Controller for adjustment to get into the convergence adjustment mode.

2. Horizontal/Vertical phase adjustment

1) Press the buttons 9 & 5 to get into the phase adjustment mode.
2) Horizontal Phase Adjustment.
Move the convex part to the quarter of vertical center by pressing the Volume ◀,▶ key.



3) Press the ENTER Key to escape from the adjustment.

3. Pattern position adjustment

1) Change into pattern shift mode.
   (Press numeric buttons “9” & “4”)
2) Make sure to overlap pattern and image.
   (Use MUTE button)
3) Accord the center of image and pattern.
   (Use ◄ , ► , ▲ ,▼ buttons)
4) Quit pattern shift mode. (Press “OK” button)
5) Save adjusted phase/pattern position adjustment mode.(Press “9”, “2” & “OK” buttons)

4. Auto convergence (option)

*Convergence is based on the auto adjustment using PC and Camera while applying the THOMSON convergence Assy and if need,adjust manually like below method.

5. Green convergence adjustment

1) Show the OSD on screen by pressing 2 button,then change the OSD to green(G) adjustment mode with pressing TV/AV button.
2) Close the cover of red PRT and blue PRT so that green display on screen only.
3) Adjust to coincide green pattern with screen JIG pattern.
   (Use ◄ , ► , ▲ ,▼ buttons)
   At this time move cursor from center to around and adjust convergence.

6. Red convergence adjustment

1) Show the OSD on screen by pressing 2 button,then change the OSD to red(R) adjustment mode with pressing TV/AV button.
2) If the need arises,close the cover of the blue lens.
3) Coincide the red screen with the green screen in same way with that of green convergence adjustment.

7. Blue convergence adjustment

1) Show the OSD on screen by pressing 2 button,then change the OSD to blue(B) adjustment mode with pressing TV/AV button.
2) Coincide the blue screen with the green screen in same way with that of red convergence adjustment.

8. Saving adjusted data

1) To save the data after adjustment,Press “9”, “1” & “OK” button.
2) Quit convergence adjustment mode. (“IN_START” button)

9. NTSC mode adjustment

1) Receive the 13CH or Multi 48 CH signal.
2) Adjust as same method of PAL mode.

10. Auto-Convergence measuring or Measuring back up data (option)

1) Operate the auto-convergence measuring or the measuring back up data separately in PAL,NTSC mode.
2) Operate in the condition of ‘Zero magnetometer ‘ in room after correcting convergence manually.
3) How to measuring
   Press the ‘IN_START -> 3 ->MENU->3’ key to operate Auto convergence measuring or the measuring back up data.

● White Balance Adjustment

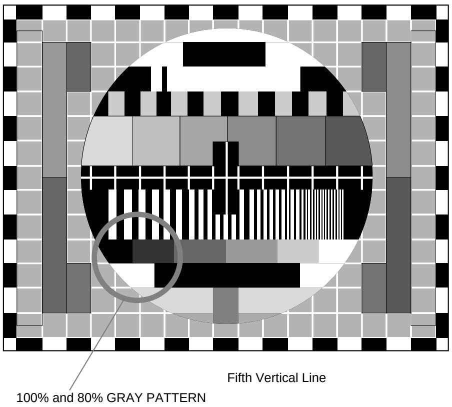
1. Test Equipment

Brightness meter(CA110)

2. Adjustment

1) This adjustment must be operated in a dark room or equivalent.
2) Adjust after Cut-Off and Focus adjustment.
3) The brightness meter must be located in 20¡ 5cm distance from the center of the screen.
4) Receive WINDOW signal.
   * High Light : RE/RL : 250±10 cd/m^2 (16:9)
   RT : 160±10 cd/m^2 (16:9)
   RE/RL : 190± 10 cd/m^2 (4:3)
   RT : 160±10 cd/m^2 (4:3)
   * Low Light : 10±3 cd/m^2
5) Set BRIGHT to H/Light adjustment mode in 4) and enter SVC mode by pressing the “IN_START & 4” button. Adjust RG (R Gain) and BG (B Gain) until color coordinate becomes RE/RL - X=0.283 and Y=0.292, RT - X=0.269 and Y=0.274 (Deviation : ±0.03).
6) Set BRIGHT to L/Light adjustment mode and adjust CR (R Cut Off) and CB (B Cut Off) until color coordinate becomes RE/RL - X=0.280 and Y=0.260, RT - X=0.269 and Y=0.274 (Deviation : ±0.03).
7) Repeat adjusting until the color coordinate of H/Light and L/Light is satisfied.
8) Save the data after adjustment. (Press “ENTER” button)
9) Exit adjustment mode. (“ INSTART ” button)

● Sub-Bright Adjustment



1) Tune the TV set to receive a EU 05 CH.
2) Enter WB mode by pressing the IN_START & ‘4’ button. Adjust S-BRI data until 100% and 80% GRAY PATTERN is classified.
   (Use ◄ , ► , ▲ ,▼, ENTER buttons)

● Auto-Convergence Check (option)

1) Check the Auto-Convergence in PAL/NTSC/1080i(option) mode separating.
2) Press the IN_START key on R/C for adjustment and press the CAPTION key to check whether Auto-Convergence works normally in each mode.
3) If not,check the Convergence condition or Measuring condition and SENSOR condition.
4)The shipment must be done after restoring the final auto convergence data value.

*** Restore a Convergence data**
IN_START -> ‘3’ -> TEXT

● Check the Option Adjustment

1) Check the OPTION1~5 data of attach 6 is well recorded.
2) The option value of each suffix is started on JOB EXP of 3141VMN chassis Assy.

● Convergence Adjustment Mode

- **INSTART -> 3 -> MENU**

*** This Mode is for engineering. So,don't change before permission from Design Department.**

0.AC POSITION READ : Distance data(After auto convergence measuring)
1.Save to 50Hz/60Hz : Save (convergence adjustment data)
It's same 9,1,Enter.
2.Save Control data : Save (A phase adjustment data)
It's same 9,2,OK.
3.AC Position Meas/ Meas backup data. : Execute(auto convergence measuring)
4.Pattern : Adjust location of convergence pattern.
It's same 9,4,Enter.
5.Phase : Adjust a phase of convergence pattern.
It's same 9,5,Enter.
6.GRID Border

Item	Description	(NTSC)	(PAL)	(1080i)
HGD	Horizontal Grid Distance	27	27	29
HRD	Horizontal Retrace Distance	55	55	42
VGD	Vertical Grid Adjustment	38	23	44
BPH	Border Position Horizontal	18	20	22
BPV	Border Position Vertical	26	18	35

7.ADJUST: Set the Dynamic focus data&auto-convergence data

Item	Description	4:3 TV (WIDE = 0)			16:9 TV (WIDE =1)		
		NTSC	PAL	1080i	NTSC	PAL	1080i
FV1	Focus parabola top value	29	24	29	30	28	30
FV2	Focus parabola middle value	23	19	23	27	26	27
FV3	Focus parabola bottom value	31	30	31	32	31	32
VFP	Focus parabola position	9	6	9	13	54	0
FSB	Start of the retrace value	31	31	31	31	31	31
FVR	Focus value during frame retrace	31	31	31	31	31	31
STA	Force the video pattern fast blanking	110	110	110	110	110	110
ACO	Auto convergence offset	60	60	60	60	60	60
PBH	Pattern Bright Horizontal	3	3	3	3	3	3
PBV	Pattern Bright Vertical	3	3	3	3	3	3
OPT	EEPROM/MICOM selection	MICOM	MICOM	MICOM	MICOM	MICOM	MICOM
ACINIT	Initialization of AC Pattern data	NO	NO	NO	NO	NO	NO
ADJINIT	Initialization of ADJ. Focus data	NO	NO	NO	NO	NO	NO

8.OSD POSITION
9.AC PATTERN ADJ :Assign location for pattern start

<PAL mode>

H,V	H,V	H,V
17,16	4,7	8,17
17,15	3,7	10,15
18,17	3,6	11,14
14,17		11,16
14,17		13,17
15,16		13,17
18,9	6,18	9,5
18,8	5,20	10,7
19,6	4,18	10,9

<NTSC mode>

H,V	H,V	H,V
14,30	5,17	10,33
14,32	3,15	12,31
15,33	3,15	13,28
11,31		14,27
11,29		15,29
12,29		15,30
15,11	6,28	12,5
15,9	5,28	13,6
16,10	4,28	13,10

● SVC Adjustment mode & Initial data

1. White Balance adjustment data (IC:CXA2100)

Menu	Description	Range	Default	
			RE/RL	RT
RD	Red Drive		14	09
GD	Green Drive		27	1F
BD	Blue Drive		29	2D
RC	Red Cut-off		0D	14
GC	Green Cut-off		1F	1F
BC	Blue Cut-off		09	13
S-BRI	Sub BRIGHT		20	20
DVCO	Digital VCO		75	75

2. Sound adjustment data (IC:MSP3411G)

Menu	Description	Range	Default
FM	FM Prescaler		14
NP	NICAM Prescaler		53
SP	SCART Prescaler		12
S1 VOL	SCART 1 Volume		66
S2 VOL	SCART 2 Volume		66
MDB-STR	MDB Effect Bass Strength		2D
MDB-HMC	MDB Harmonic Content		19
MDB-HP	MDB High Pass		09
MDB-LP	MDB Low Pass		OB
MDB-LIM	MDB Amplitude Limit		FC

- **MDB(MICRONAS DYNAMIC BASS)**

3.Picture adjustment data(IC:CXA21801)

Menu	Description	Range	PAL
D-COL	Dynamic color mode setting		03
EXTSW	Selects the Y/Cb/Cr input or EY/ECb/Ecr		00
SHPFO	Sharpness f0 setting		00
BLKBT	RGB output bottom limiter level control (for blanking/signal)		00
PREOV	Pre-shoot/over-shoot ratio setting		03
CTILE	CTI level setting		01
LTILE	LTI level setting		02
PLMTL	RGB output amplitude level setiing		03
ABLMO	ABL mode setting		02
CTI-M	CTI mode setting		00
LTI-M	LTI mode setting		01
GAMMA	RGB output GAMMA correction amount control		02
DPIC	Dynamic picture(black expansion) control		03
DC-TR	Y system DC transmission ratio setting		02
S-CON	Sub Contrast control		0A
LRGB2	Picture level control for LRGB2		05
P-ABL	RGB output level detection DC setting for PEAK ABL		0B
ABLTH	Threshold voltage adjustment for ABL_IN input		07
CB-OF	DC_OFFSET canceling for Cb signal		1f
CR-OF	DC_OFFSET canceling for Cr signal		1f
Y-OFF	DC_OFFSET canceling for Y signal		07
AGN-W	White(80IRE) output aging mode ON/OFF switch		00
AGN-B	All blank(0IRE) output aging mode ON/OFF switch		00
SYSTM	Selects the signal band		00
VM-DL	VM_OUT phase control		02
VM-FO	VM_OUT level control		02
VM-LE	VM_OUT f0 setting		03
FLCOL	Flesh color enhancement function control		00
FL-SW	Flesh color enhancement function ON.OFF switch		00

4.Picture adjustment data (IC:CXA21802)

Menu	Description	Range	PAL
R-Y R	R-Y axis + (R-Y) component setting		07
R-Y B	R-Y axis + (B-Y) component setting		0A
G-Y R	G-Y axis + (R-Y) component setting		08
G-Y B	G-Y axis + (B-Y) component setting		06
UP-BL	VBLK position control for top of picture, when VBLK_SW = 1		00
LO-BL	VBLK position control for bottom of picture, when VBLK_SW=1		00
EW-DC	EW_DRV signal DC level down switch		00
UP-UP	Horizontal pin distortion compensation position adjustment for extreme top edge of picture		00
LO-UP	Horizontal pin distortion compensation position adjustment for extreme bottom edge of picture		00
UP-UG	Horizontal pin distortion compensation amount adjustment for extreme bottom edge of picture		00
LO-UG	Horizontal pin distortion compensation amount adjustment for extreme top edge of picture		00
UC-PO	Horizontal pin distortion compensation polarity setting for extreme top/bottom edge of picture		00
VB-SW	VBLK period mode setting switch		00
CLP-S	Internal clamp pulse start phase setting		00
NON-I	Interlace/progressive mode switch		00
AFC-M	AFC loop gain control		01
L-BLK	HBLK width control for left side of picture when HBLK_SW =1		39
R-BLK	HBLK width control for right side of picture when HBLK_SW =1		0F
CLP-P	Internal clamp pulse phase control		00
CLP-G	Switch for gating internal clamp pulse with input HSYNC		00
HB-SW	HBLK width control ON/OFF switch during 4:3 software full display mode on a 16:9 CRT		01
ZOOSW	Zoom mode ON/OFF switch for 16:9 CRT		00
JMPSW	Reference pulse jump mode ON/OFF switch		00
VFREQ	Vertical frequency setting		02
VCOMP	High voltage fluctuation compensation amount setting for vertical picture size		00
HCOMP	High voltage fluctuation compensation amount setting for horizontal picture size		00
AKBTM	AKB Bch reference pulse timing setting		07
BLK-O	Blanking ON/OFF SW when AKBOFF=1		00
AKBOF	Automatic cut-off/manual cut-off setting		00

5.CXA2151Q adjustment item

Menu	Description	Range	PAL
INPUT	Selects the four systems of inputs IN1 to IN4		0
MAT-O	Selects the type of matrix conversion		0
VFREQ	Selects the frequency of the dummy sync output to SELV_OUT(pin23)		0
SELS1	Selects the type of the signal input to IN1_H/L1(pin36) and IN1_V/L2(pin37)		0
SELS2	Selects the type of the signal input to IN1_H/L1(pin44) and IN1_V/L2(pin45)		1
FIX-S	Swithches the sync identification circuit operating mode		0
V-TC	Sets the V sync separation time constant		0
H-WID	Sets the SELH_OUT (pin22) output pulse width		0
HSEPS	Sets the sync separation method. (Valid for YG_IN(Pin16) input)		0
HD-DC	Sets the H sync separation time constant of the YG_IN (Pin16) input		0
HYSW	Switches the signal output to YG_OUT (Pin 15)		0
HS-MA	Sets whether or not to add H-sync within V-sync at SELH_OUT(Pin22)		0
MACRO	Switch for eliminating the macrovision signal of the 525P signal at SELH_OUT (Pin22). This is valid only when HFREQ =1		0
SELDU	This Switch selects whether to output the sync separated signal or the dummy Sync to SELH_OUT (Pin22) and SELV_OUT(Pin23)		0
CLK-S	This switch selects the clock for the sync counter		0
G-SEL	This switch selects the gain or mute of the signals output to SELCR_OUT (Pin25), SELCB_OUT(Pin26) and SELY_OUT (pin27)		1
CBGAI	SELCB_OUT(Pin26) gain control		0
CRGAI	SELCR_OUT(Pin25) gain control		0
YGAIN	SELY_OUT(Pin27) gain control		0
HFREQ	Selects the frequency of the dummy sync output to SELH_OUT(Pin22)		1

6. OPTION Data Adjustment

Option 1

No	Item	Specification	Remark
1	200PR	1 : 200 PROGRAM (CHINA ONLY) 0 : 100 PROGRAM (OTHER COUNTRIES)	1 : LIST no operation 0 : LIST operation
2	TSEAR	1 : WITH TURBO SEARCH 0 : WITHOUT TURBO SEARCH (FRANCE)	1 : RT/ RE 2 ; RL
3	I /II SR	1 : SAVE DUAL SOUND CONDITION (RT) 0 : NOT SAVE DUAL SOUND CONDITION(RE/RL)	1 : NON - EU 2 : EU
4	TOP	1 : TOP + FLOF TEXT 0 : FLOF TEXT	1 : Dutch/ Swiss/ Austria/ Sweden/ Norway/ Finland/ Poland/ Italy/ Spain/ Benelux 3 2 : OTHERS
5	Eye	1 : WITH DIGITAL EYE 0 : WITHOUT DIGITAL EYE	
6	A2 ST	1 : WITH FM STEREO 0 : WITHOUT FM STEREO	1 : ALL 0 :
7	SYS	0 : BG/ I/ DK (RE MODEL) 1 : BG/ L (RL MODEL) 2 : BG/ I/ DK/ M (RT MODEL) 3 : RESERVED	0 : BG/ I/ DK 1 : 2 : 3 :

Option 2

No	Item	Specification	Remark
1	ACMS	1 : WITH CHANNEL NAME DISPLAY 0 : WITHOUT CHANNEL NAME DISPLAY	1 : ALL COUNTRIES EXCEPT AUSTRALIA 0 : AUSTRALIA
2	VOL	1 : RUSHED SOUND CURVE (ASIA, MIDDLE EAST ASIA) 0 : STANDARD SOUND CURVE (OTHER COUNTRIES)	
3	Wide	1 : 16 : 9 0 : 4 : 3	1 : NZ TOOL 2 : NA TOOL
4	EU	1 : RE/ RL MODEL 0 : RT MODEL	AV MODE sequence decision
5	Compo	1 : WITH COMPONENT INPUT 0 : WITHOUT COMPONENT INPUT	
6	1080i	1 : WITH 1080i INPUT 0 : WITHOUT 080i INPUT	
7	PC	1 : WITH VGA PC INPUT 0 : WITHOUT VGA PC INPUT	
8	DRP	1 : WITH H - FILTER 0 : WITHOUT H - FILTER	

Option 3

No	Item	Specification	Remark
1	PIP	1 : WITH PIP 0 : WITHOUT PIP	
2	INDEX	1 : WITH INDEX 0 : WITHOUT INDEX	
3	HDEV	1 : HIGH DEVIATION MODULATION (CHINA) 0 : RF NORMAL SOUND MODULATION (OTHERS)	1 : China/ Saudi/ Indo/ Indonesia 0 :
4	D - PRO	1 : WITH DOLBY PRO LOGIC 0 : WITHOUT DOLBY PRO LOGIC	1 ; 0 : ALL Model
5	D - VIR	1 : WITH DOLBY VIRTUAL SURROUND 0 : WITHOUT DOLBY VIRTUAL SURROUND	1 : 0 : ‘4’ series Model Only
6	TEXT	1 : WITH TELETEXT 0 : WITHOUT TELETEXT	
7	SCART	1 : RF 54% MODULATION INPUT 0 : RF 100% MODULATION INPUT	
8	CH + AU	1 : CHINA + AUSTRALIA CHANNEL TABLE 0 : OTHER COUNTRIES CHANNEL TABLE	

Option 4

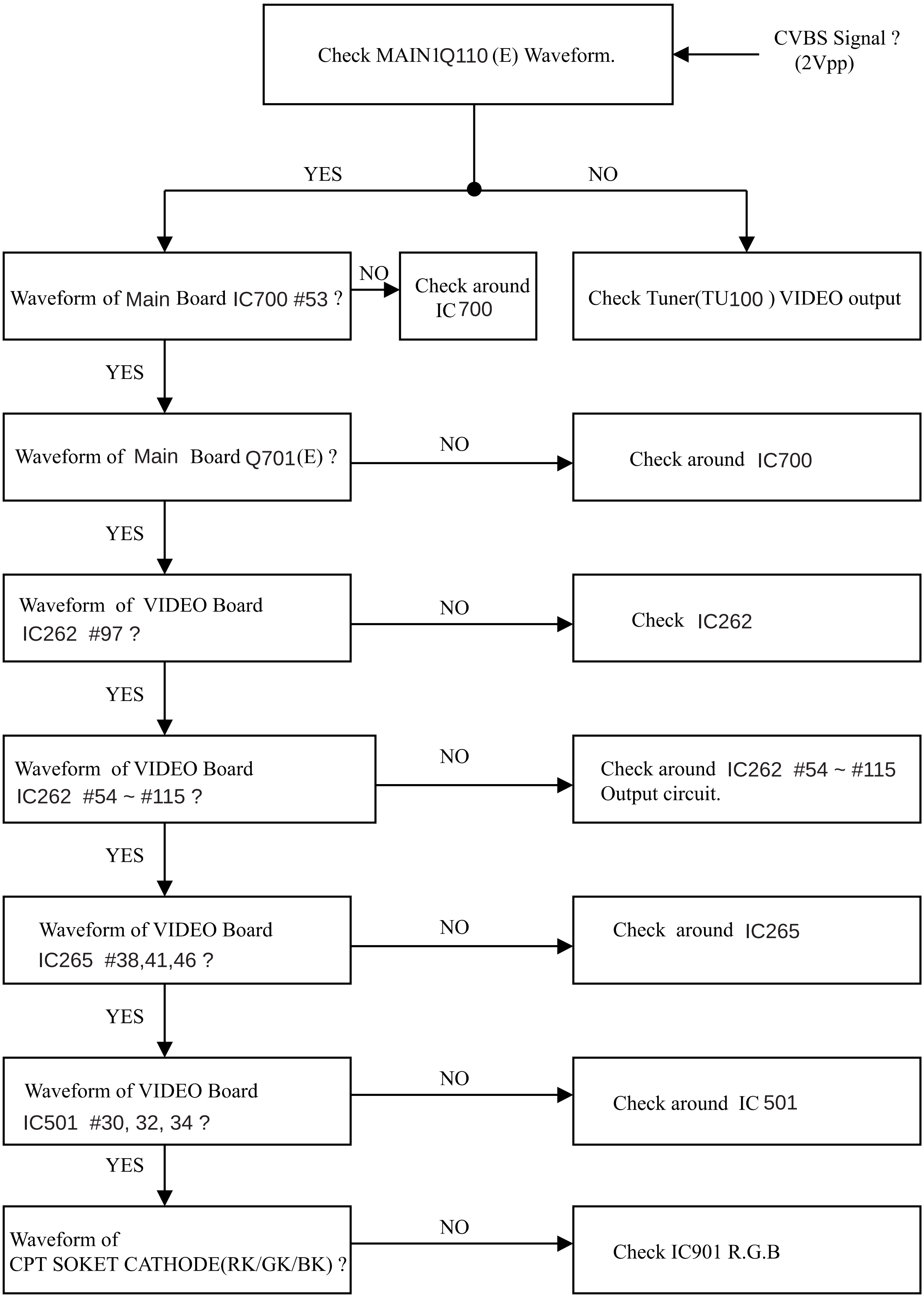
No	Item	Specification	Remark
1	AV4 - S	1 : WITH SCART TYPE 0 : WITH PHONE TYPE	1 : SCART -> over 1 0 : PHONE ONLY
2	BOOSTER	1 : WITH BOOSTER 0 : WITHOUT BOOSTER	
3	AV SV	1 : SAVE LAST AV 0 : NOT SAVE LAST AV	
4	SAV4	1 : WITH SAV4 (RE, RL) 0 : WITHOUT SAV4 (RT)	1 : 3 SCART area S-JACK 0 : others
5	EZ-AV	1 : WITH EZ-AV 0 : WITHOUT EZ-AV	1 : RT 0 : Scart jack (RE/RL)
6	B - DEF	1 : BOOSTER DEFAULT ON AFTER CHANNEL SEARCH 0 : BOOSTER DEFAULT OFF AFTER CHANNEL SEARCH	1 : DEFAULT “1” 0 :
7	I-KEY	1 : WITH INDEX KEY IN THE LOCAL BUTTON 0 : WITH MUTE KEY IN THE LOCAL BUTTON	
8	HAIER	1 : HAIER OEM ONLY 2 : OTHERS	

Option 5

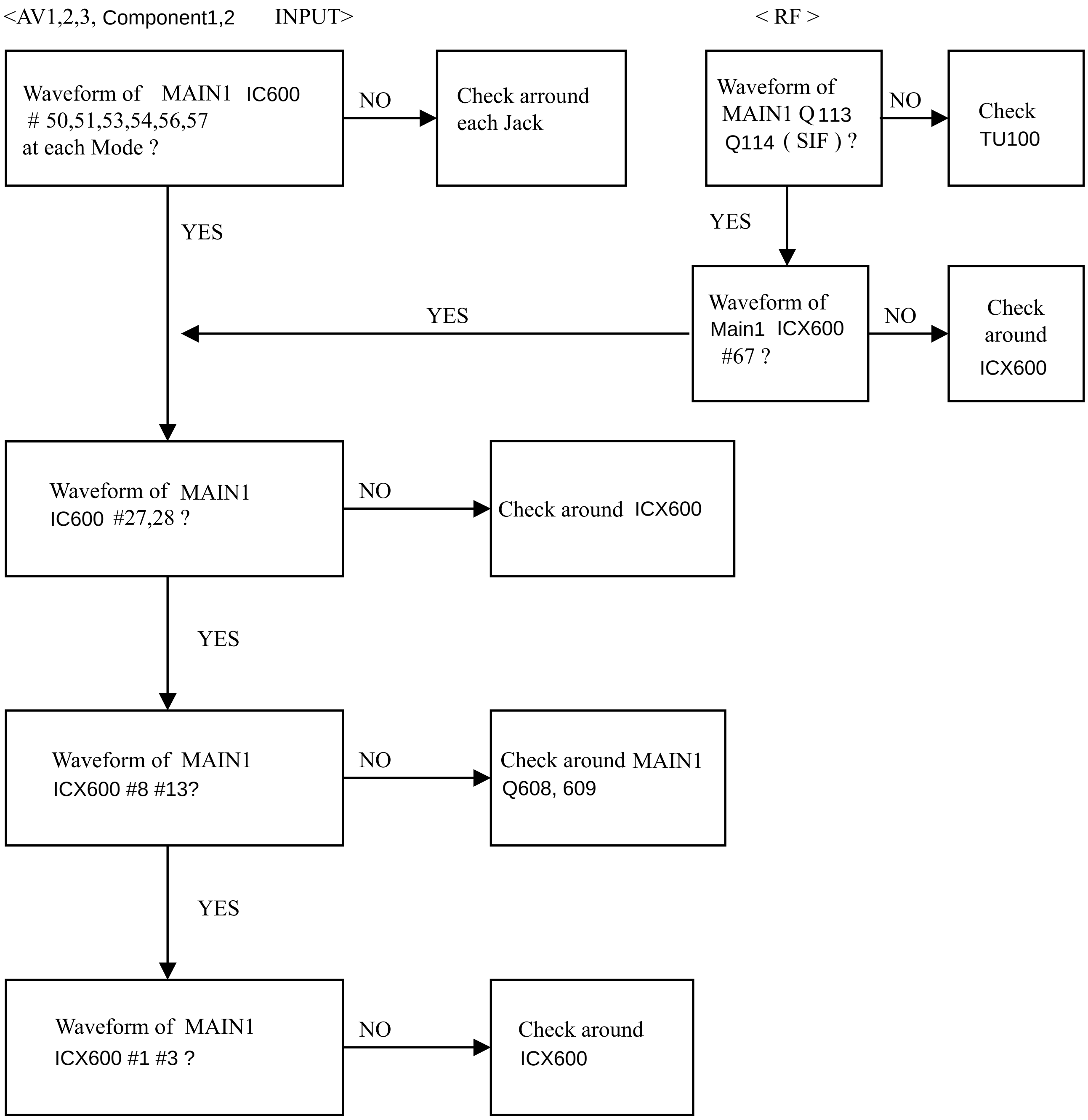
No.	State	Language	Function
1	LANGUAGE	0:ENG Only	English
		1:EU 5EA	English/German/French/Italy/Spanish
		2:EU ETC	Pol./Hungary/Czecho/Russia/Eng
		3:GREECE	English/ Greece
		4:PARSI	English/Parsi (Iran)
		5:ARAB URDU	English/French/Arab+Urdu
	T-LAN	6:English+Hindi	English/Hindi
		7:English+I+M+V	English/Indonesian/Malaysian/Vietnamese
		8:English+THAI	English/Thai
		9:English+China	English/China
2		0:West Europe	English/French/Swedish/Czech/German/Spanish/Italian
		1:East Europe	Polish/French/Swedish/Czech/German/Slovenian/Italian/Rumanian
		2:Turkey EU	English/French/Swedish/Turkish/German/Spanish/Italian
		3:EAST EU2	English/Hungarian/Serbian/Czech/German/Polish/Spanish/Italian/
			Rumanian
		4:Cyrillic 1	
		5:Cyrillic 2	
		6:Cyrillic 3	Russia
		7:Turkey/Greek 1	
		8:Turkey/Greek 2	
		9:Turkey/Greek 3	Eng./ Greece
		10:Arab/France	
		11:Arab/English	
		12:Arab/Hebrew 1	
		13:Arab/Hebrew 2	
		14:Farsi/English	
		15:Farsi/France	
		16:Farsi all	

Trouble Shooting

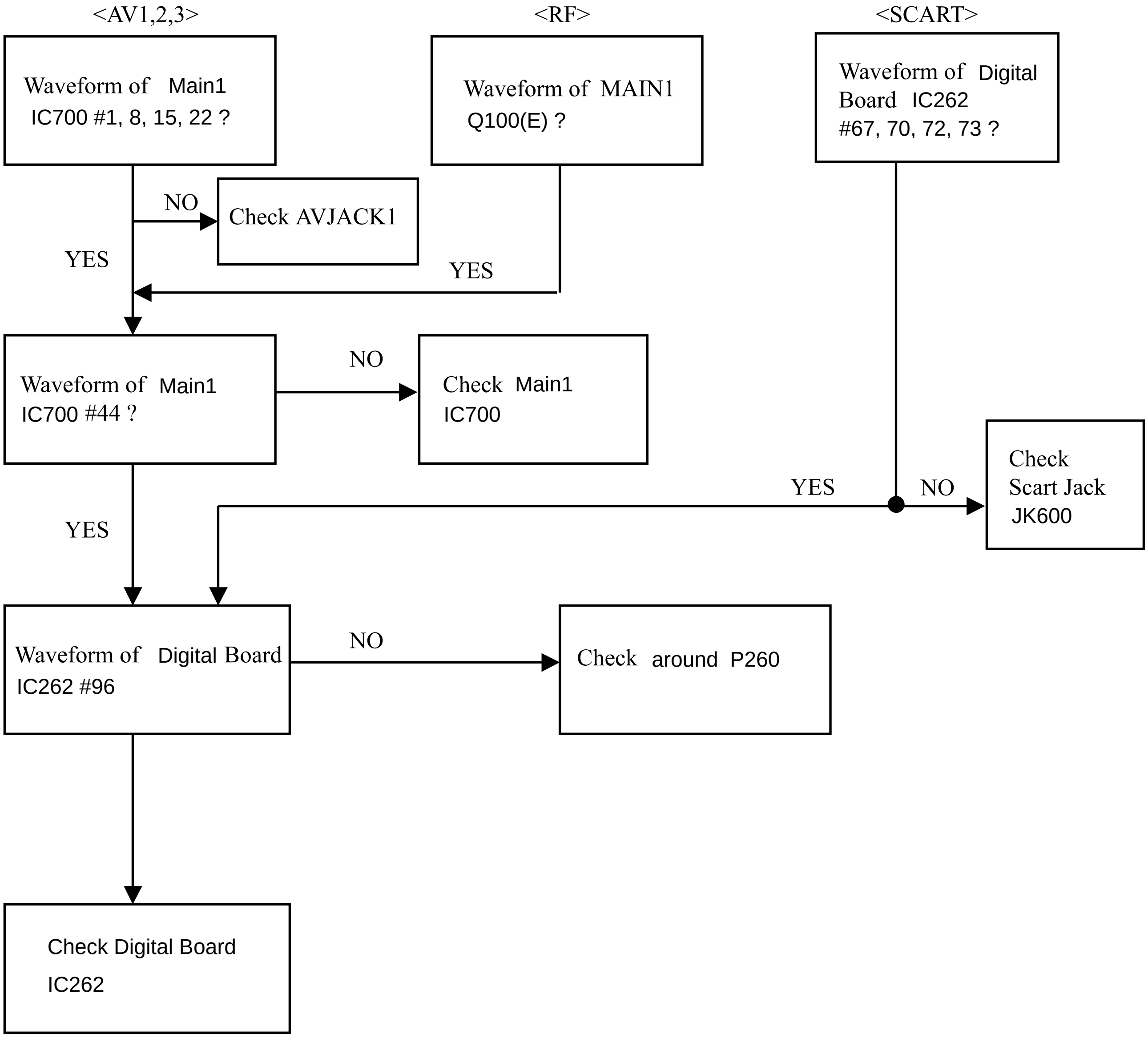
1. NO PICTURE (SOUND OK)


Check MAIN1Q110 (E) Waveform.
CVBS Signal ?
(2Vpp)
YES
NO
Waveform of Main Board IC700 #53 ?
NO
Check around IC700
Check Tuner(TU100) VIDEO output
YES
Waveform of Main Board Q701(E) ?
NO
Check around IC700
YES
Waveform of VIDEO Board IC262 #97 ?
NO
Check IC262
YES
Waveform of VIDEO Board IC262 #54 ~ #115 ?
NO
Check around IC262 #54 ~ #115 Output circuit.
YES
Waveform of VIDEO Board IC265 #38,41,46 ?
NO
Check around IC265
YES
Waveform of VIDEO Board IC501 #30, 32, 34 ?
NO
Check around IC 501
YES
Waveform of CPT SOKET CATHODE(RK/GK/BK) ?
NO
Check IC901 R.G.B

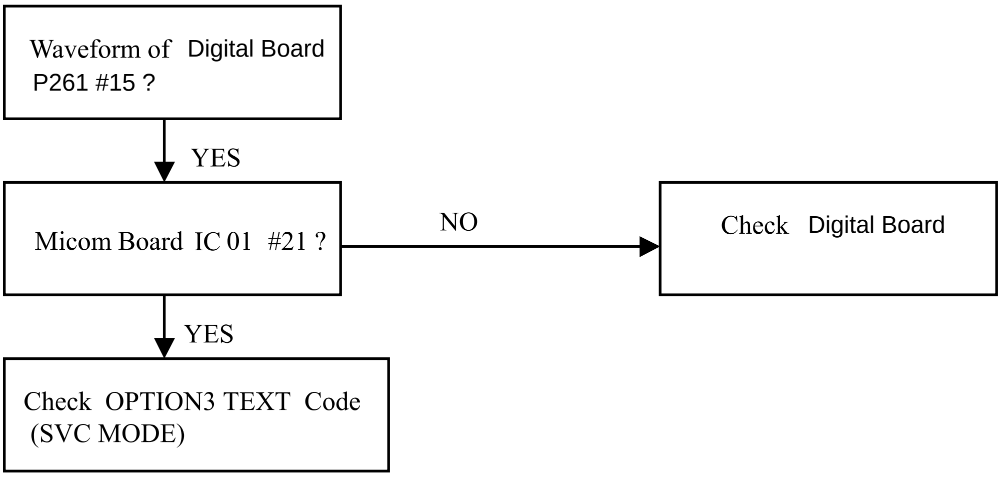
2. NO SOUND (PICTURE OK)


<AV1,2,3, Component1,2 INPUT>
< RF >
Waveform of MAIN1 IC600 # 50,51,53,54,56,57 at each Mode ?
NO
Check arround each Jack
YES
Waveform of MAIN1 Q113 Q114 (SIF) ?
NO
Check TU100
YES
Waveform of Main1 ICX600 #67 ?
NO
Check around ICX600
YES
Waveform of MAIN1 IC600 #27,28 ?
NO
Check around ICX600
YES
Waveform of MAIN1 ICX600 #8 #13?
NO
Check around MAIN1 Q608, 609
YES
Waveform of MAIN1 ICX600 #1 #3 ?
NO
Check around ICX600

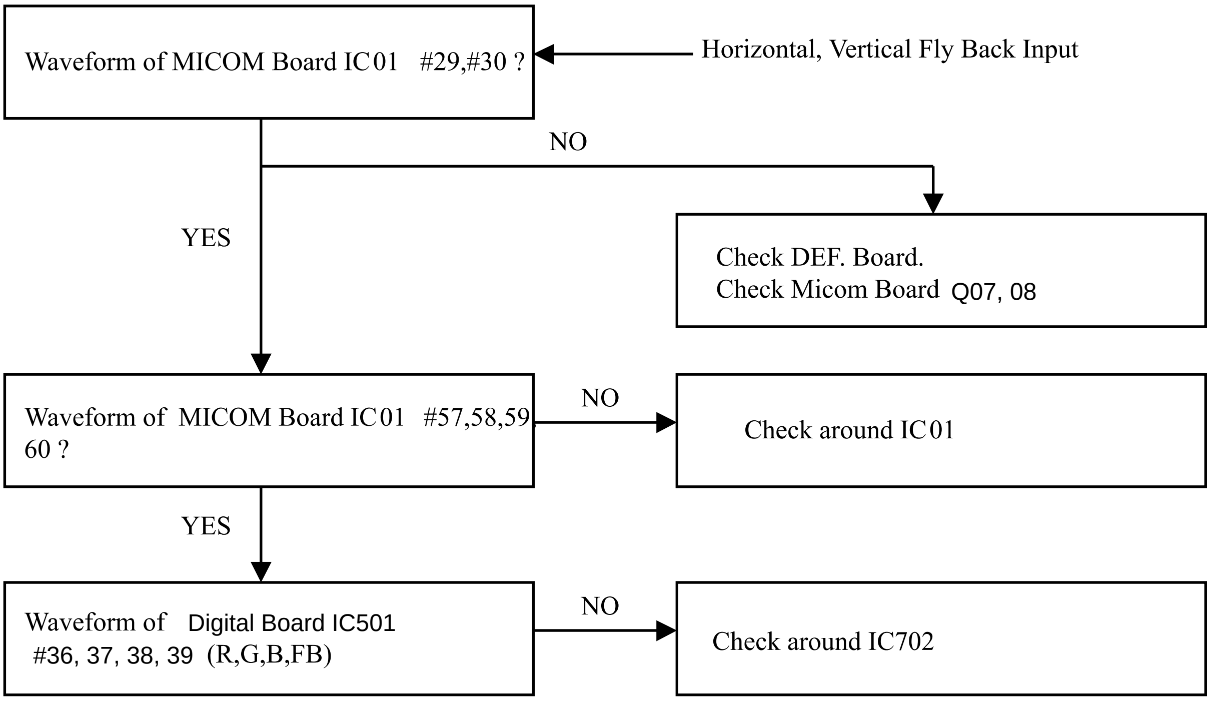
3. NO PIP


<AV1,2,3>
<RF>
<SCART>
Waveform of Main1 IC700 #1, 8, 15, 22 ?
Waveform of MAIN1 Q100(E) ?
Waveform of Digital Board IC262 #67, 70, 72, 73 ?
NO
Check AVJACK1
YES
YES
Waveform of Main1 IC700 #44 ?
NO
Check Main1 IC700
YES
NO
Check Scart Jack JK600
YES
Waveform of Digital Board IC262 #96
NO
Check around P260
Check Digital Board IC262

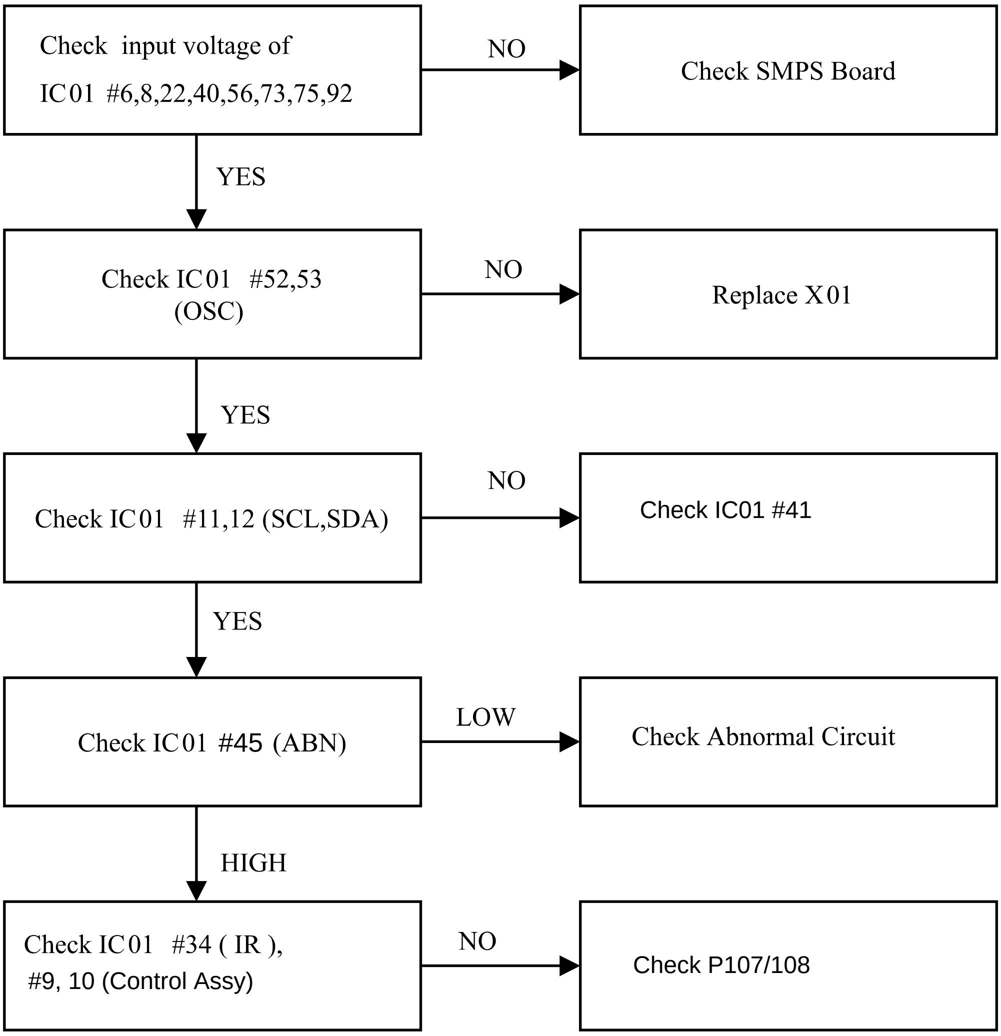
4. NO Teletext (Picture OK)


Waveform of Digital Board P261 #15 ?
YES
Micom Board IC 01 #21 ?
NO
Check Digital Board
YES
Check OPTION3 TEXT Code (SVC MODE)

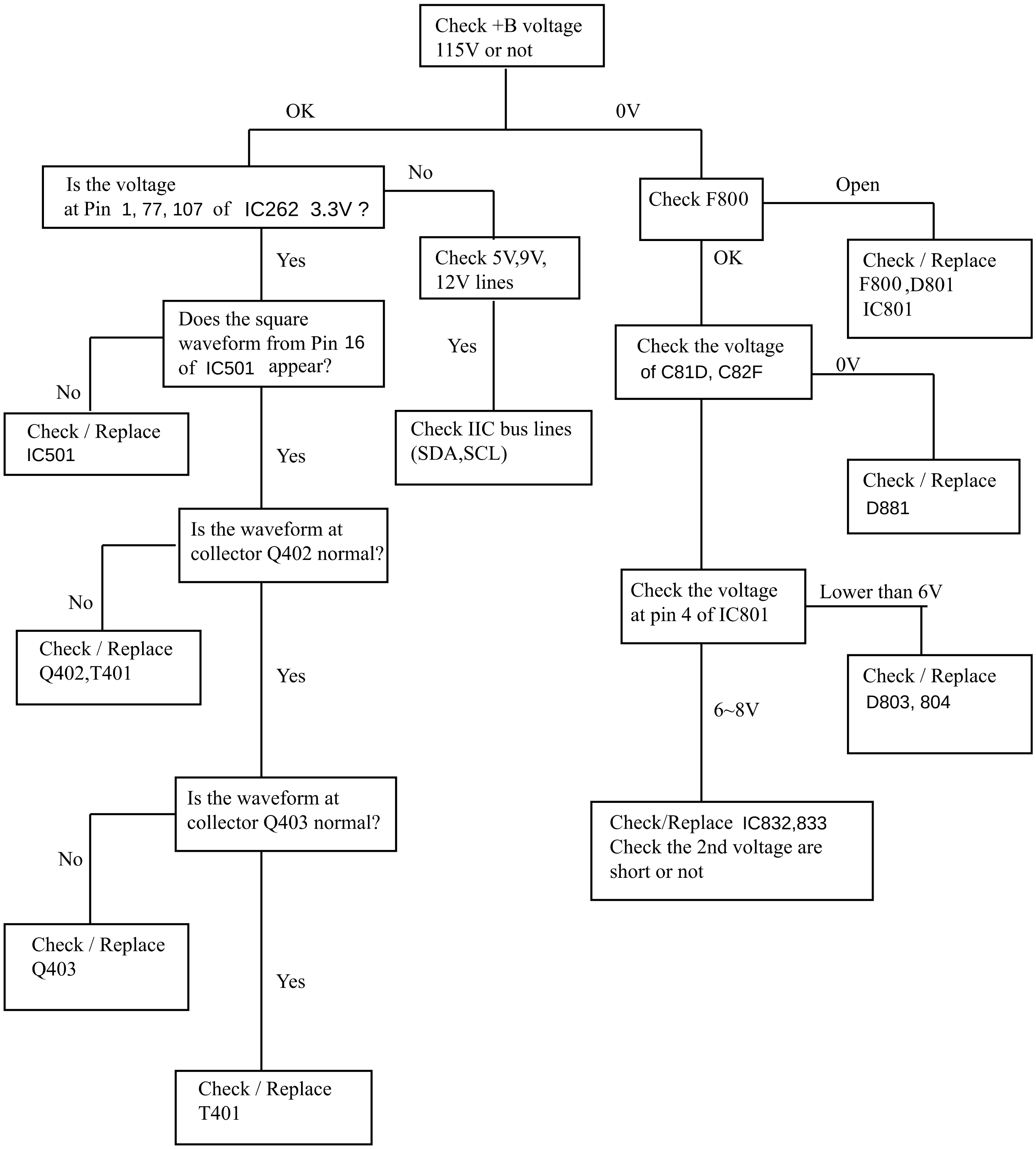
5. NO OSD (ON SCREEN DISPLAY)


Waveform of MICOM Board IC01 #29,#30 ?
Horizontal, Vertical Fly Back Input
NO
YES
Check DEF. Board.
Check Micom Board Q07, 08
Waveform of MICOM Board IC01 #57,58,59 60 ?
NO
Check around IC01
YES
Waveform of Digital Board IC501 #36, 37, 38, 39 (R,G,B,FB)
NO
Check around IC702

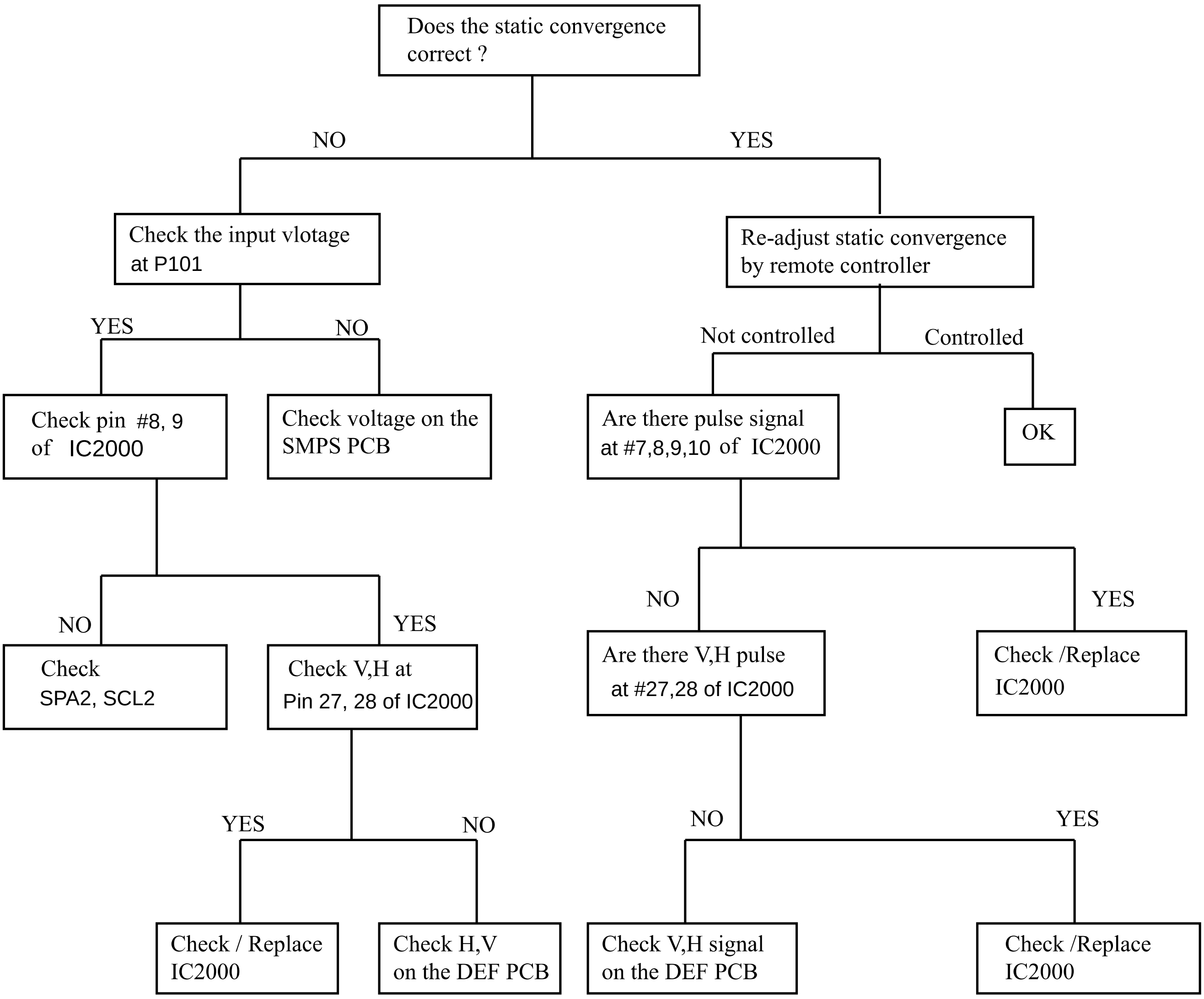
6. NO POWER ON


Check input voltage of
IC01 #6,8,22,40,56,73,75,92
NO
Check SMPS Board
YES
Check IC01 #52,53
(OSC)
NO
Replace X01
YES
Check IC01 #11,12 (SCL,SDA)
NO
Check IC01 #41
YES
Check IC01 #45 (ABN)
LOW
Check Abnormal Circuit
HIGH
Check IC01 #34 (IR),
#9, 10 (Control Assy)
NO
Check P107/108

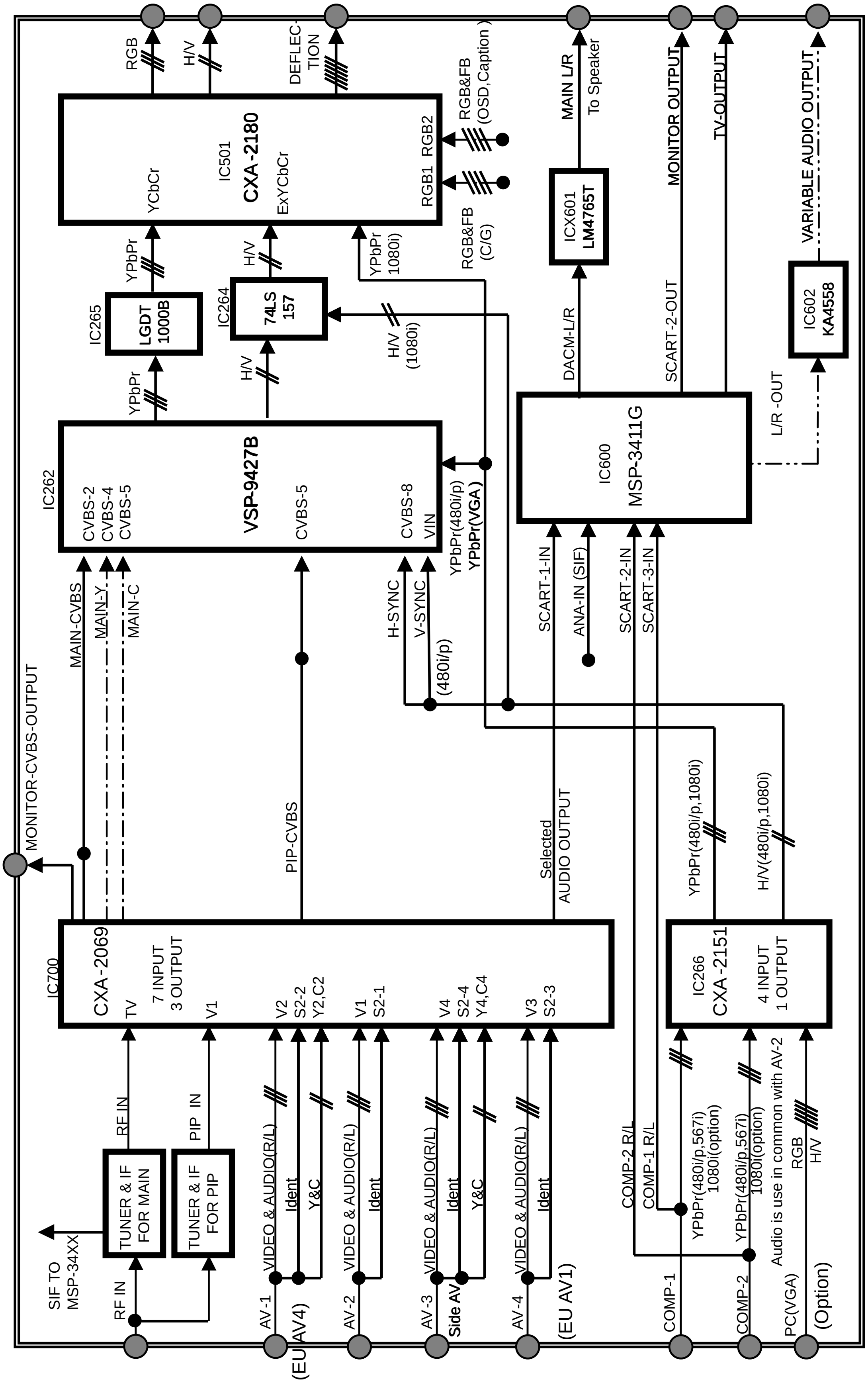
7 .NO RASTER


Check +B voltage 115V or not
OK
0V
Is the voltage at Pin 1, 77, 107 of IC262 3.3V ?
No
Check 5V,9V, 12V lines
Yes
Check IIC bus lines (SDA,SCL)
Yes
Does the square waveform from Pin 16 of IC501 appear?
No
Check / Replace IC501
Yes
Is the waveform at collector Q402 normal?
No
Check / Replace Q402,T401
Yes
Is the waveform at collector Q403 normal?
No
Check / Replace Q403
Yes
Check / Replace T401
Check F800
Open
Check / Replace F800 ,D801 IC801
OK
Check the voltage of C81D, C82F
0V
Check / Replace D881
Check the voltage at pin 4 of IC801
Lower than 6V
Check / Replace D803, 804
6~8V
Check/Replace IC832,833 Check the 2nd voltage are short or not

8 . INCORRECT CONVERGENCE

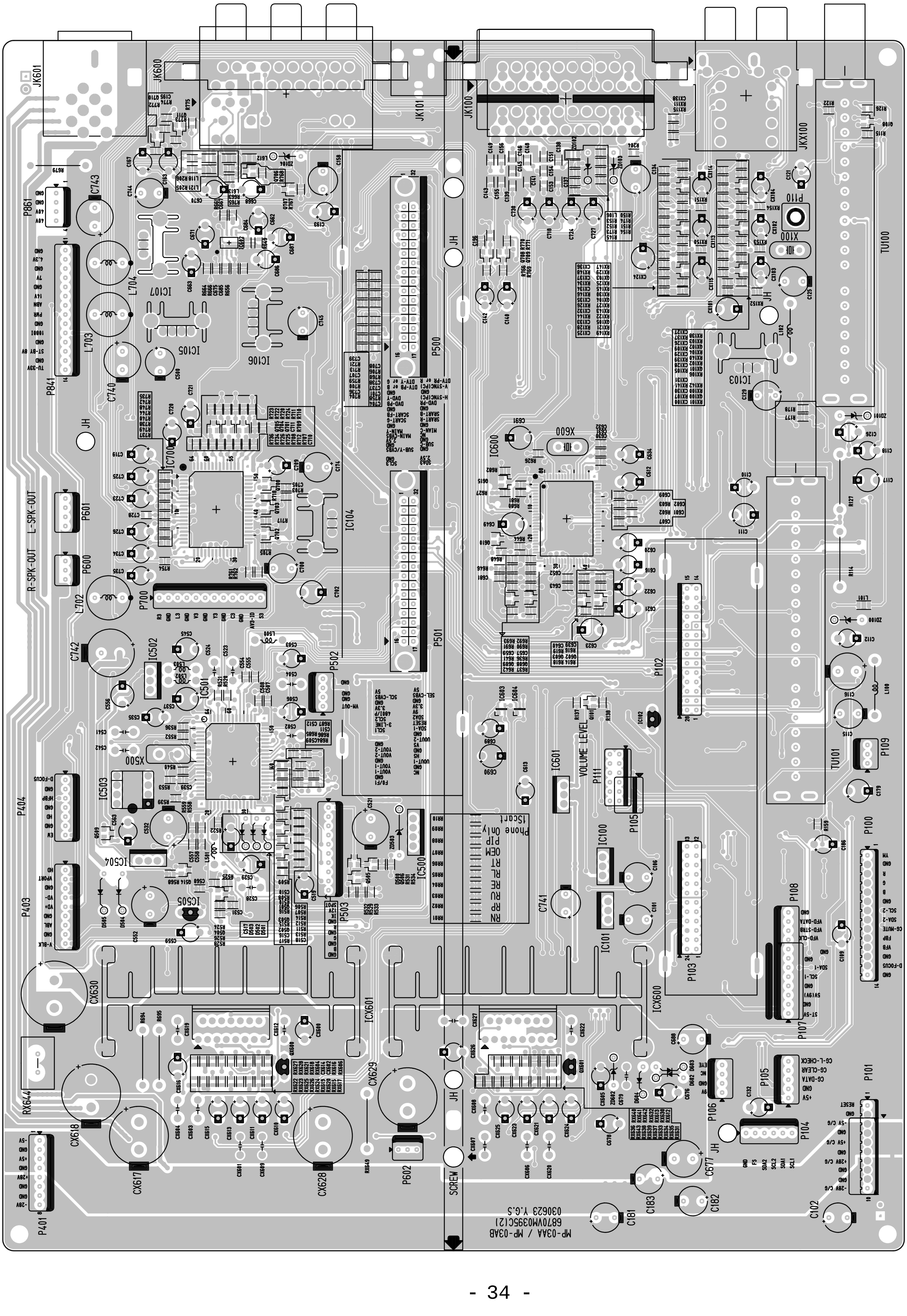

Does the static convergence correct ?
NO
YES
Check the input vlotage at P101
Re-adjust static convergence by remote controller
YES
NO
Not controlled
Controlled
Check pin #8, 9 of IC2000
Check voltage on the SMPS PCB
Are there pulse signal at #7,8,9,10 of IC2000
OK
NO
YES
NO
YES
Check SPA2, SCL2
Check V,H at Pin 27, 28 of IC2000
Are there V,H pulse at #27,28 of IC2000
Check /Replace IC2000
YES
NO
NO
YES
Check / Replace IC2000
Check H,V on the DEF PCB
Check V,H signal on the DEF PCB
Check /Replace IC2000

BLOCK DIAGRAM

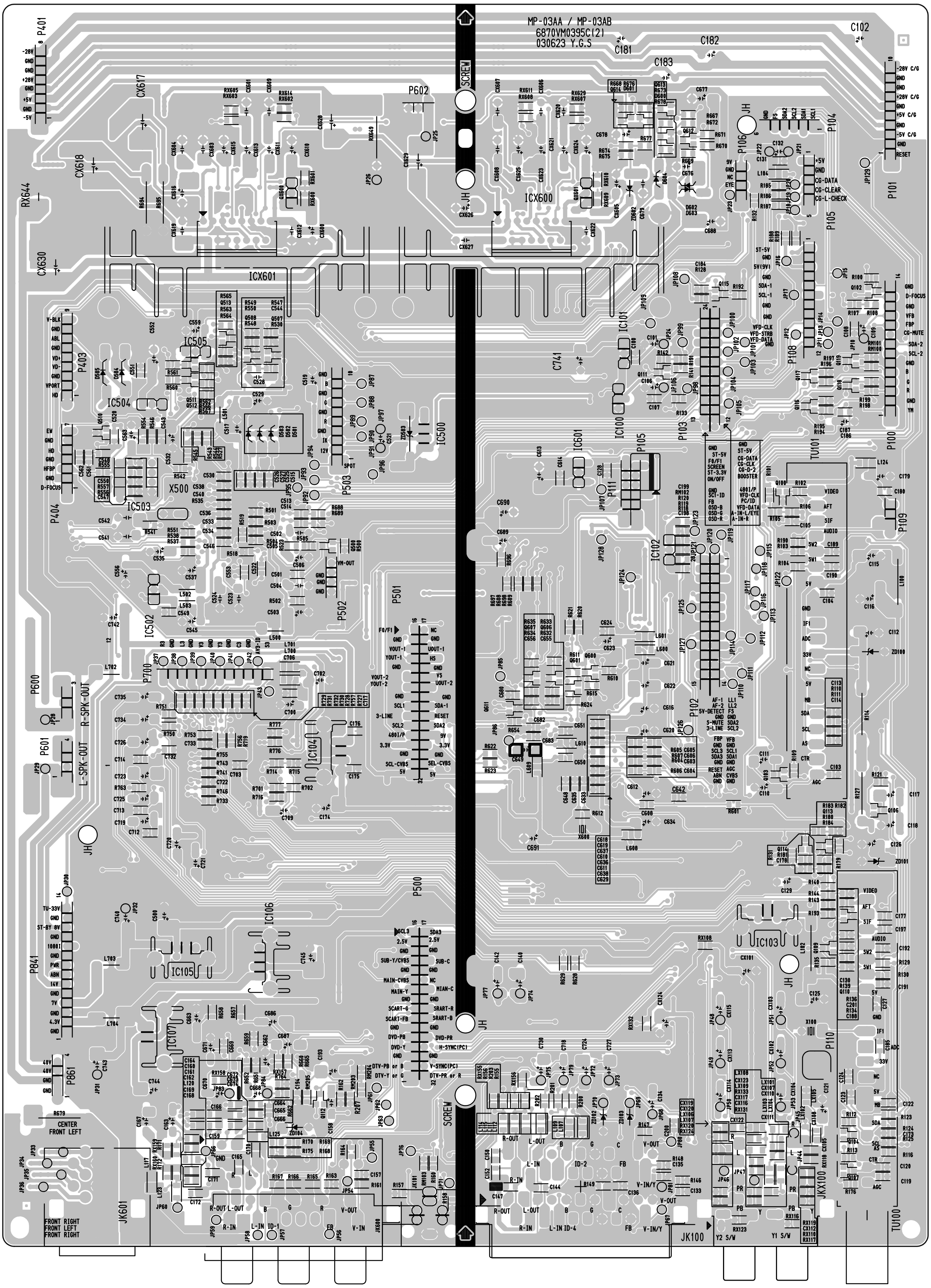

RGB
H/V
DEFLEC-TION
MAIN L/R
To Speaker
MONITOR OUTPUT
TV-OUTPUT
VARIABLE AUDIO OUTPUT
IC501
CXA-2180
YCbCr
ExYCbCr
RGB1
RGB2
RGB&FB (OSD,Caption)
RGB&FB (C/G)
YPbPr
H/V
YPbPr 1080i)
ICX601
LM4765T
IC602
KA4558
IC265
LGDT 1000B
IC264
74LS 157
H/V (1080i)
YPbPr
H/V
DACM-L/R
SCART-2-OUT
L/R -OUT
IC262
VSP-9427B
CVBS-2
CVBS-4
CVBS-5
CVBS-5
CVBS-8
VIN
YPbPr(480i/p)
YPbPr(VGA)
IC600
MSP-3411G
SCART-1-IN
ANA-IN (SIF)
SCART-2-IN
SCART-3-IN
MONITOR-CVBS-OUTPUT
MAIN-CVBS
MAIN-Y
MAIN-C
PIP-CVBS
H-SYNC
V-SYNC
(480i/p)
Selected AUDIO OUTPUT
YPbPr(480i/p,1080i)
H/V(480i/p,1080i)
IC700
CXA-2069
7 INPUT 3 OUTPUT
TV
V1
V2
S2-2
Y2,C2
V1
S2-1
V4
S2-4
Y4,C4
V3
S2-3
IC266
CXA-2151
4 INPUT 1 OUTPUT
RF IN
PIP IN
TUNER & IF FOR MAIN
TUNER & IF FOR PIP
SIF TO MSP-34XX
RF IN
VIDEO & AUDIO(R/L)
Ident
Y&C
VIDEO & AUDIO(R/L)
Ident
VIDEO & AUDIO(R/L)
Ident
Y&C
VIDEO & AUDIO(R/L)
Ident
COMP-2 R/L
COMP-1 R/L
YPbPr(480i/p,567i) 1080i(option)
YPbPr(480i/p,567i) 1080i(option)
Audio is use in common with AV-2
RGB
H/V
AV-1
(EU AV4)
AV-2
AV-3
Side AV
AV-4
(EU AV1)
COMP-1
COMP-2
PC(VGA)
(Option)

PRINTED CIRCUIT BOARD

MAIN1 (TOP)

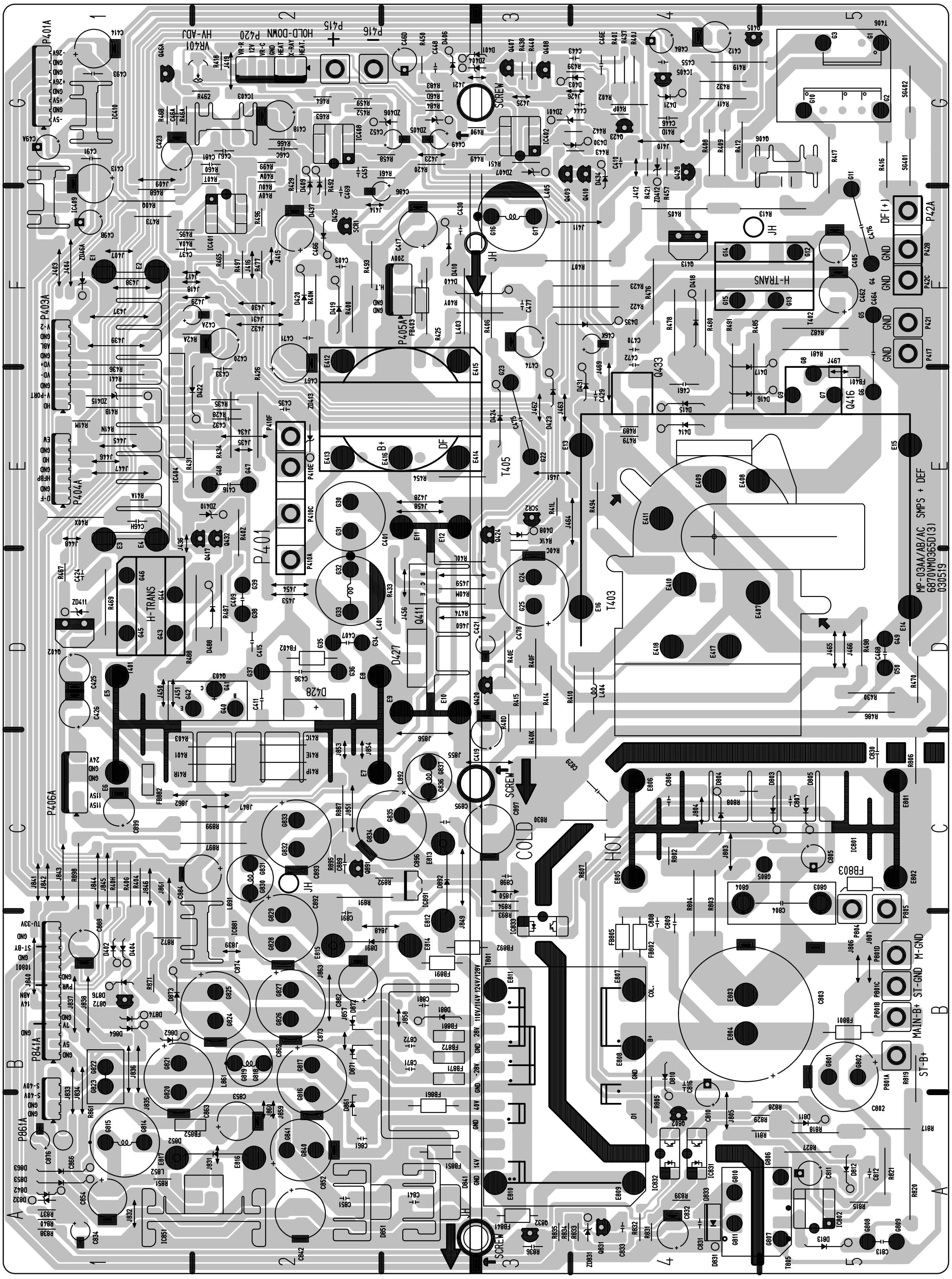

JK601
JK600
JK101
JK100
JKX100
TU100
TU101
P861
P841
P601
P600
P700
P404
P403
P401
P500
P501
P502
P503
P602
P100
P101
P102
P103
P104
P105
P106
P107
P108
P109
P110
P111
IC100
IC101
IC103
IC104
IC105
IC106
IC107
IC500
IC501
IC502
IC503
IC504
IC505
IC600
IC700
ICX600
ICX601
X100
X500
X600
L702
L703
L704
C740
C741
C742
C743
CX617
CX618
CX628
CX629
CX630
CX677
C181
C182
C183
C102
RX644
L-SPK-OUT
R-SPK-OUT
VOLUME LEVEL
SCREW
JH
Phone Only
PIP
OEM
RT
RL
RE
RU
RN
RP
MP-03AA / MP-03AB
6870VM0395C(2)
030623 Y.G.S

MAIN1 (BOTTOM)



MP-03AA / MP-03AB
6870VM0395C(2)
030623 Y.G.S
SCREW
P401
P602
C102
C181
C182
C183
CX617
CX618
ICX600
ICX601
P403
P404
P503
P501
P502
P500
P700
P600
P601
R-SPK-OUT
L-SPK-OUT
P841
P861
JK601
JK100
JKX100
TU100
TU101
P100
P101
P104
P105
P106
P108
P109
P110
IC100
IC101
IC102
IC103
IC104
IC105
IC106
IC107
IC500
IC502
IC503
IC504
IC505
IC601
X500
CENTER FRONT LEFT
FRONT RIGHT FRONT LEFT FRONT RIGHT
JH

MAIN2


P401A
P403A
P404A
P406A
P841A
P861A
HOLD-DOWN
P420
HV-ADJ
VR401
P415
P416
H-TRANS
P401
T405
T403
SCREW
JH
COLD
HOT
B+
DF
GND
DF(+)
P42A
P42B
P42C
P421
P417
MP-03AA/AB/AC SMPS + DEF
6870VM0365D(3)
030519
FB803
MAIN-B+
ST-GND
M-GND
ST-B+
COL.
1
2
3
4
5
A
B
C
D
E
F
G

COMPONENT LOCATION GUIDE(MAIN2)

C401..........E2
C403..........F2
C405..........F5
C407..........D2
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C446..........G4
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C874..........B2
C876..........A1
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C892..........B2
C893..........C2
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C896..........C3
C897..........C3
C898..........C3
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D864..........B1
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JP14..........B2
JP15..........B2
JP16..........C3
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JP18..........E2
JP19..........E2
JP20..........F3
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JP26..........G2
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P403A........E1
P404A........E1
P405A........F3
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P410C.......E2
P410E........E2
P410F........E2
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P42C..........F5
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P801B........B5
P801C.......B5
P801D.......B5
P841A........B1
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R404..........C1
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R429..........F2
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R431..........E2
R432.........G4
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R434..........E2
R435..........E2
R436..........F1
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R439.........G4
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R478..........F4
R479..........E4
R480..........F4
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R488..........D2
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R493..........F3
R494..........E4
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R835..........A3
R836..........A3
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R892..........C3
R893..........C3
R894..........C3
R895..........C2
R897..........C2
R898..........B1
R899..........C2
R40A..........F2
R40C.........D3
R40D.........C3
R40E.........D3
R40F.........D3
R40G.........B1
R40H.........B1
R40I..........G4
R40J..........G4
R40K.........C3
R40L..........D3
R40M.........D3
R40N.........F2
R40P.........G4
R40Q.........F2
R40T.........G2
R40U.........G2
R40V..........F2
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R40X.........E1
R40Y..........F3
R40Z.........D2
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R41C.........C2
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R41E.........C2
R41K.........E3
R41L..........E3
R41M.........E1
R41N.........E1
R41P.........C2
R41R.........C2
R42A..........F2
R46A.........G2
R46B.........G1
R46D.........G3
SCR1.........F2
SCR2.........E3
SG401.......F5
SG402.......G5
T401..........D1
T402..........F5
T403..........E4
T405..........F3
T406..........G5
T801..........B3
T805..........A5
VR401.......G2
ZD401.......G3
ZD404.......G3
ZD405.......G3
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ZD407.......G3
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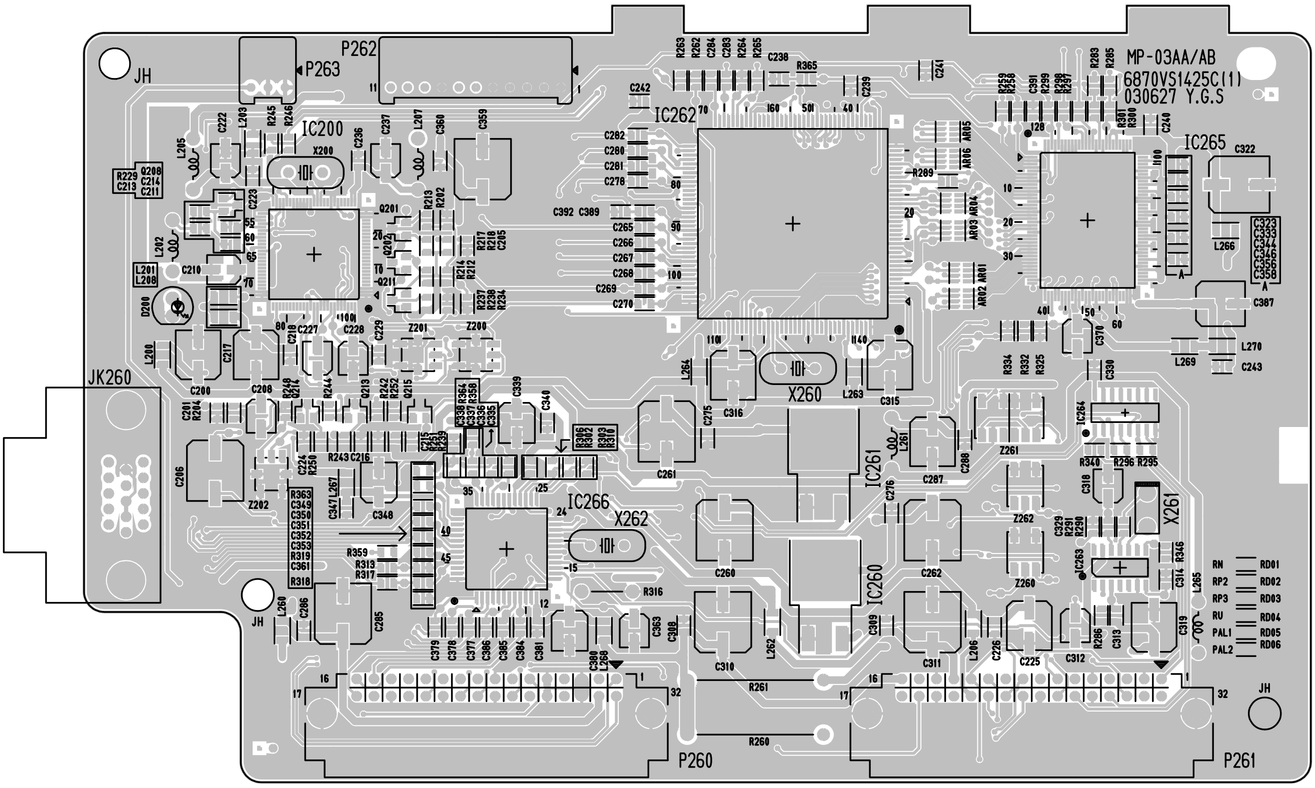
DIGITAL (TOP)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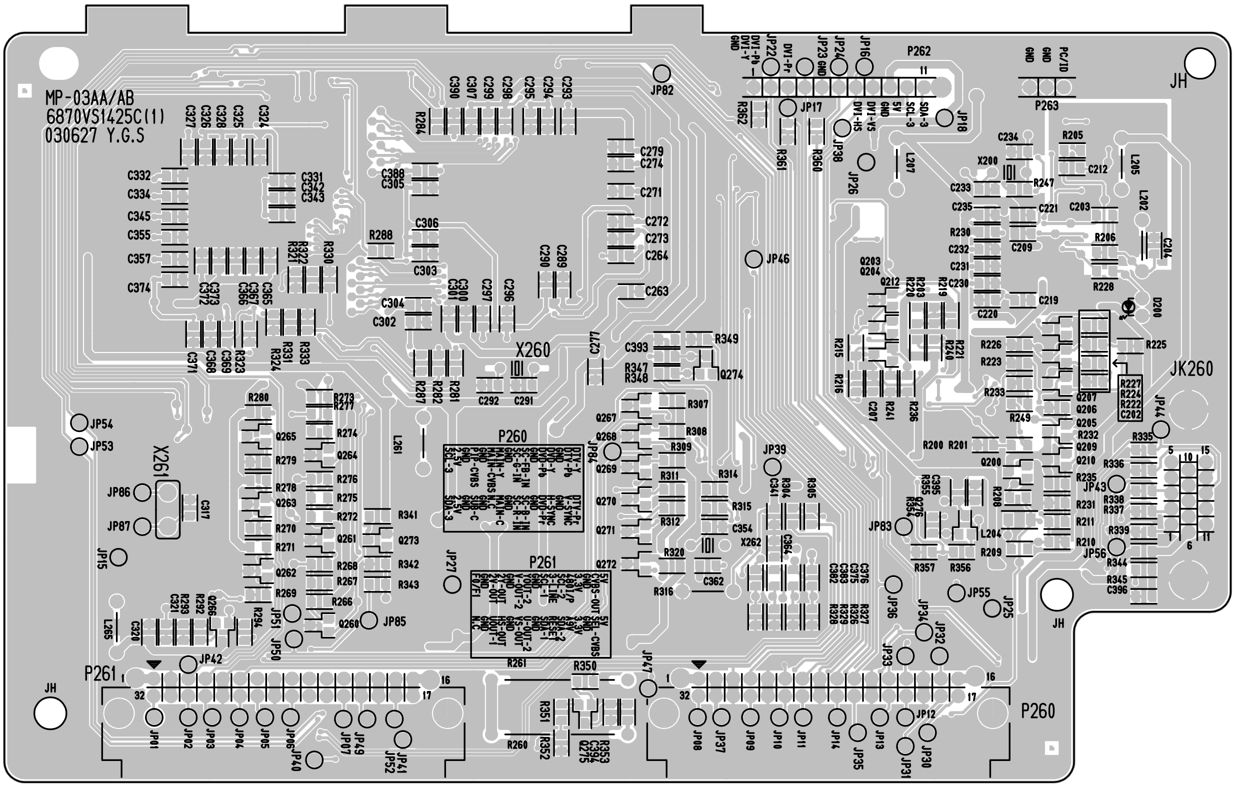
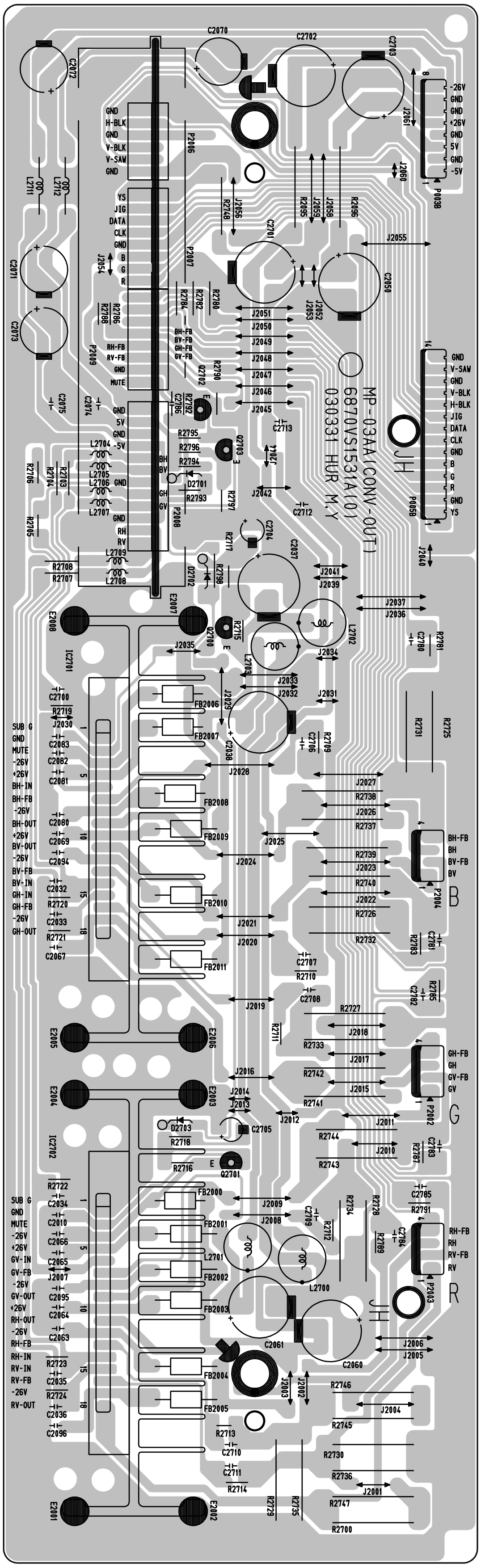
6870VS1425C(1)
030627 Y.G.S
JH
P262
P263
IC200
IC262
IC265
IC266
IC261
IC260
X200
X260
X261
X262
JK260
P260
P261

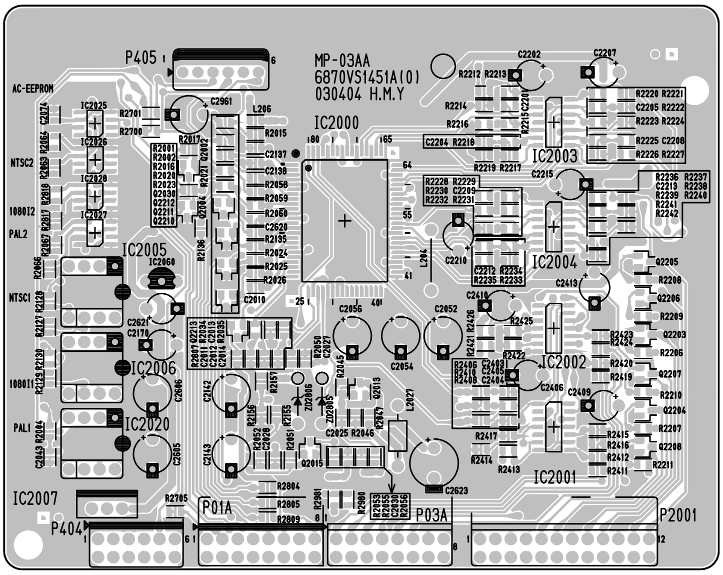
DIGITAL (BOTTOM)


MP-03AA/AB
6870VS1425C(1)
030627 Y.G.S
JH
P262
P263
X200
X260
X261
X262
JK260
P260
P261

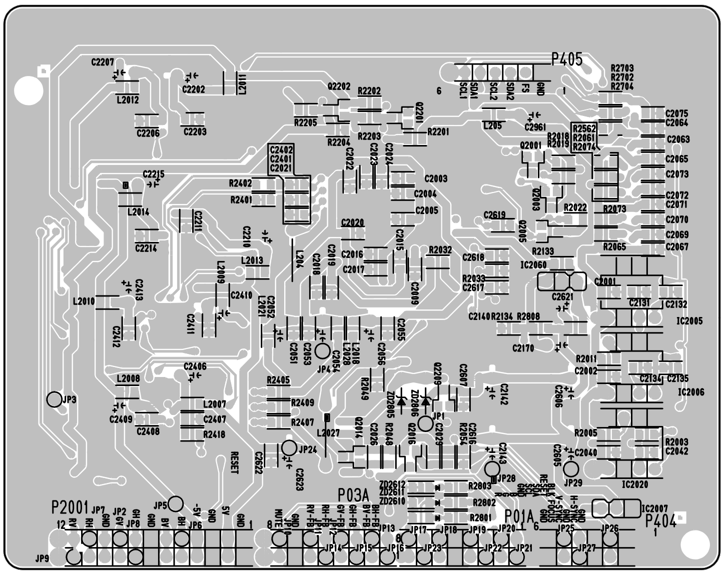
CONVERGENCE OUT


MP-03AA(CONV-OUT)
6870VS1531A(0)
030331 HUR M.Y
JH
P2006
P2007
P2008
P2009
P003B
P005B
P2004
P2002
P2003
IC2701
IC2702
B
G
R

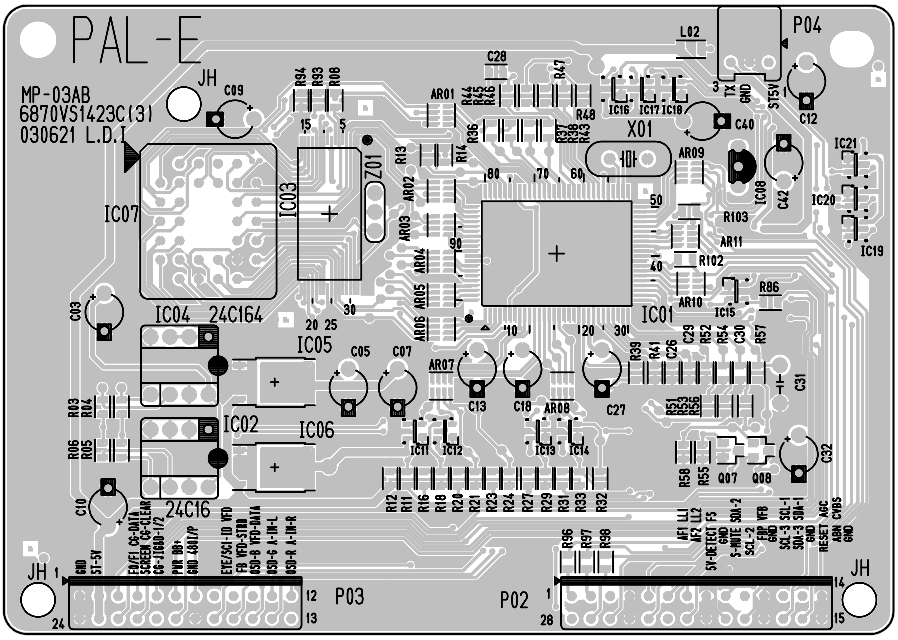
CONV N-IN (TOP)


P405
MP-03AA
6870VS1451A(0)
030404 H.M.Y
IC2000
IC2003
IC2004
IC2002
IC2001
IC2005
IC2006
IC2020
IC2007
P404
P01A
P03A
P2001
AC-EEPROM
NTSC2
1080I2
PAL2
NTSC1
1080I1
PAL1

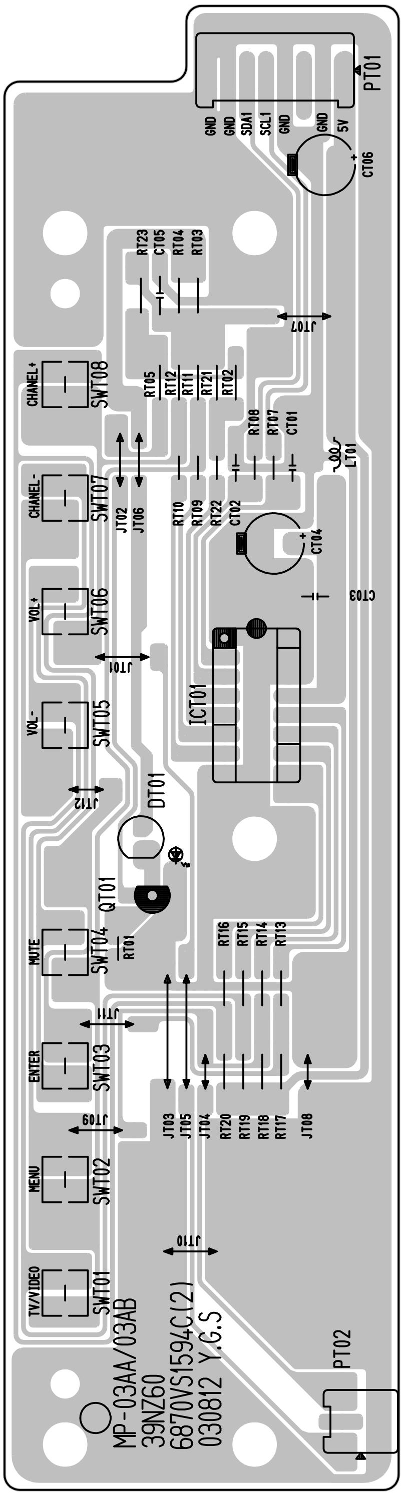
CONV N-IN (BOTTOM)


P405
P2001
P03A
P01A
P404
IC2005
IC2006
IC2020
IC2007

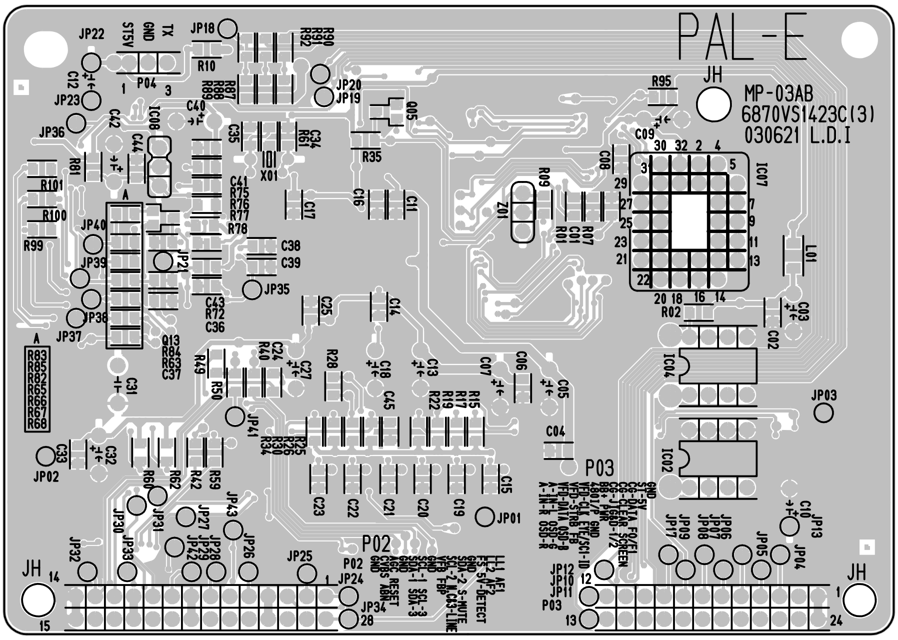
MICOM (TOP)


PAL-E
MP-03AB
6870VS1423C(3)
030621 L.D.I
IC01
IC02
IC03
IC04 24C164
IC05
IC06
IC07
24C16
X01
P02
P03
P04
JH

CONTROL


PT01
PT02
ICT01
DT01
QT01
SWT01
SWT02
SWT03
SWT04
SWT05
SWT06
SWT07
SWT08
TV/VIDEO
MENU
ENTER
MUTE
VOL-
VOL+
CHANEL-
CHANEL+
MP-03AA/03AB
39NZ60
6870VS1594C(2)
030812 Y.G.S

MICOM (BOTTOM)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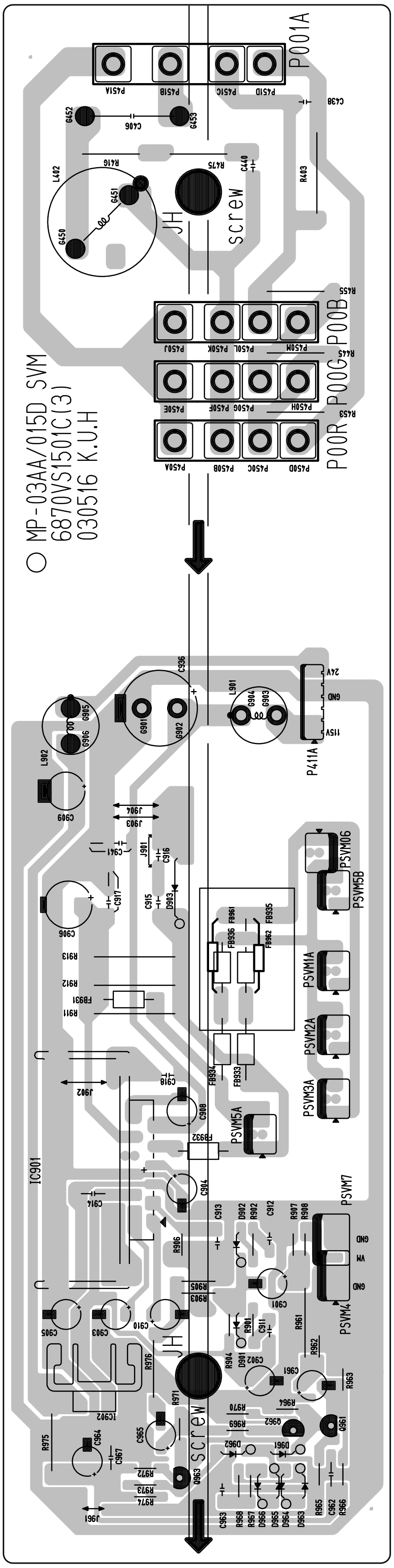
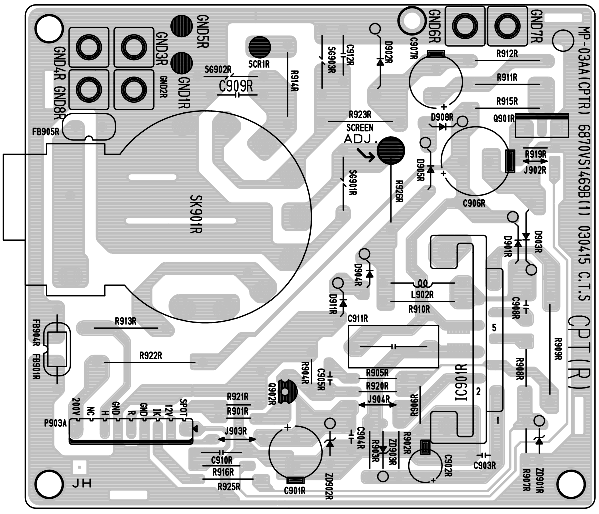
JH
MP-03AB
6870VS1423C(3)
030621 L.D.I
IC01
IC02
IC04
IC08
X01
P02
P03
P04

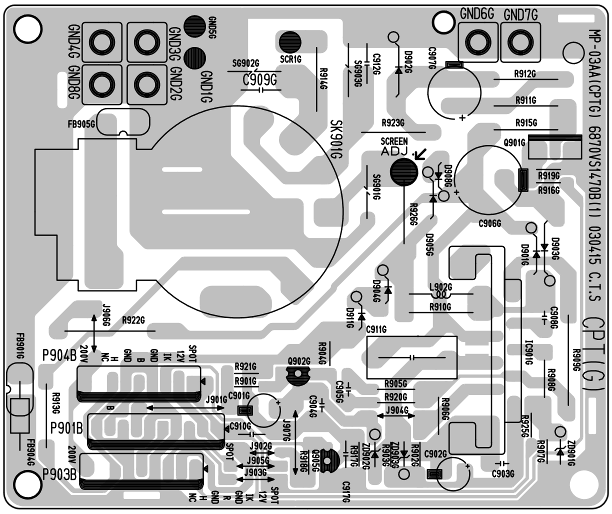
VM


MP-03AA/015D SVM
6870VS1501C(3)
030516 K.U.H
P001A
P00B
P00G
P00R
JH
screw
P411A
IC901
PSVM06
PSVM5B
PSVM1A
PSVM2A
PSVM3A
PSVM5A
PSVM7
PSVM4

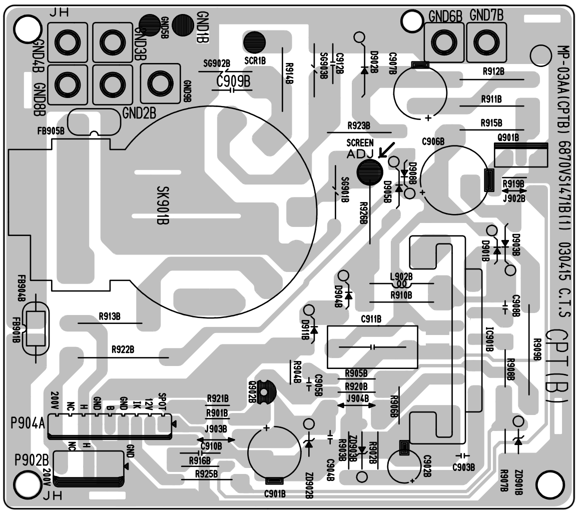
CPT (R)


MP-03AA(CPTR) 6870VS1469B(1) 030415 C.T.S
CPT(R)
SK901R
SCREEN ADJ
C909R
GND6R
GND7R
P903A
JH

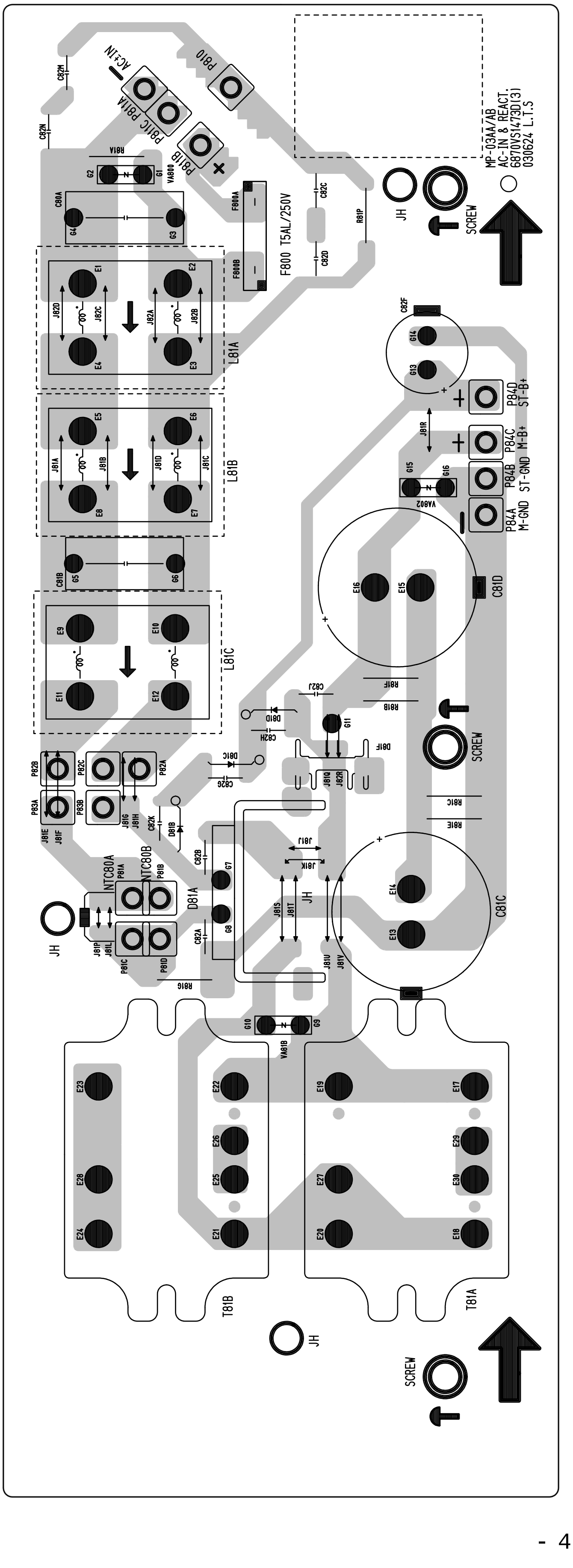
CPT (G)


MP-03AA(CPTG) 6870VS1470B(1) 030415 C.T.S
CPT(G)
SK901G
SCREEN ADJ
C909G
GND6G
GND7G
P904B
P901B
P903B

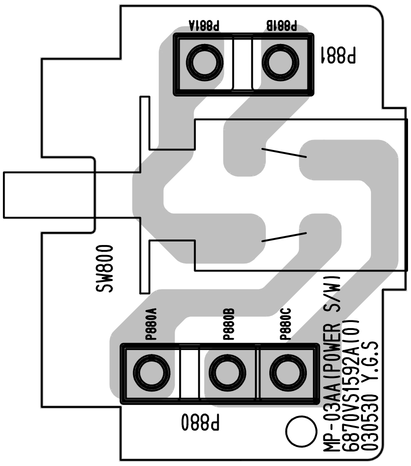
CPT (R)


MP-03AA(CPTB) 6870VS1471B(1) 030415 C.T.S
CPT(B)
SK901B
SCREEN ADJ
C909B
GND6B
GND7B
P904A
P902B
JH

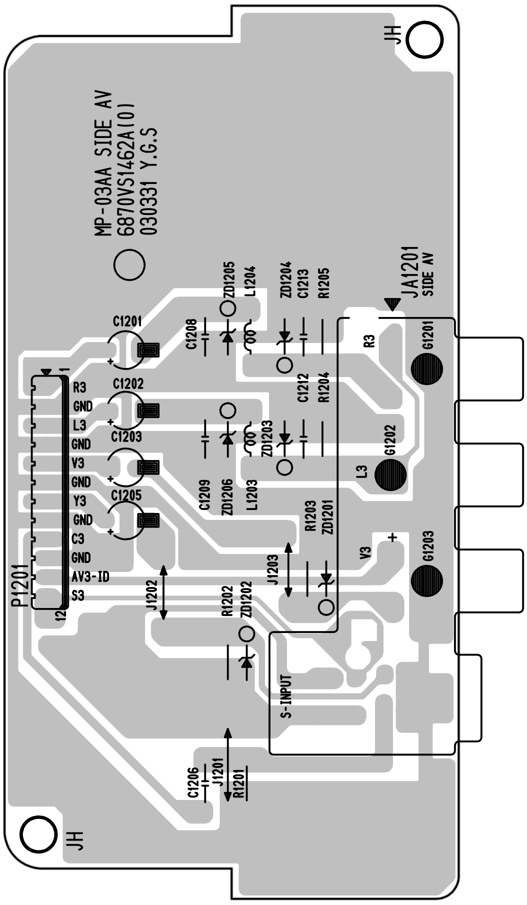
AC INPUT & REACTOR


MP-03AA/AB
AC-IN & REACT.
6870VS1473D(3)
030624 L.T.S
AC-IN
P810
P811A
P811B
P811C
F800 T5AL/250V
F800A
F800B
R81A
VA800
C80A
JH
SCREW
L81A
L81B
L81C
C81B
C81C
C81D
C82F
P84D ST-B+
P84C M-B+
P84B ST-GND
P84A M-GND
VA802
R81B
R81C
R81E
R81F
R81G
D81A
D81B
D81C
D81D
D81F
NTC80A
NTC80B
P81A
P81B
P81C
P81D
P82A
P82B
P82C
P83A
P83B
VA81B
T81A
T81B

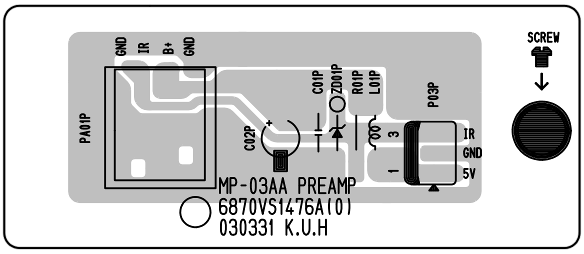
POWER S/W


P881A
P881B
P881
SW800
P880A
P880B
P880C
P880
MP-03AA(POWER S/W)
6870VS1592A(0)
030530 Y.G.S

SIDE A/V

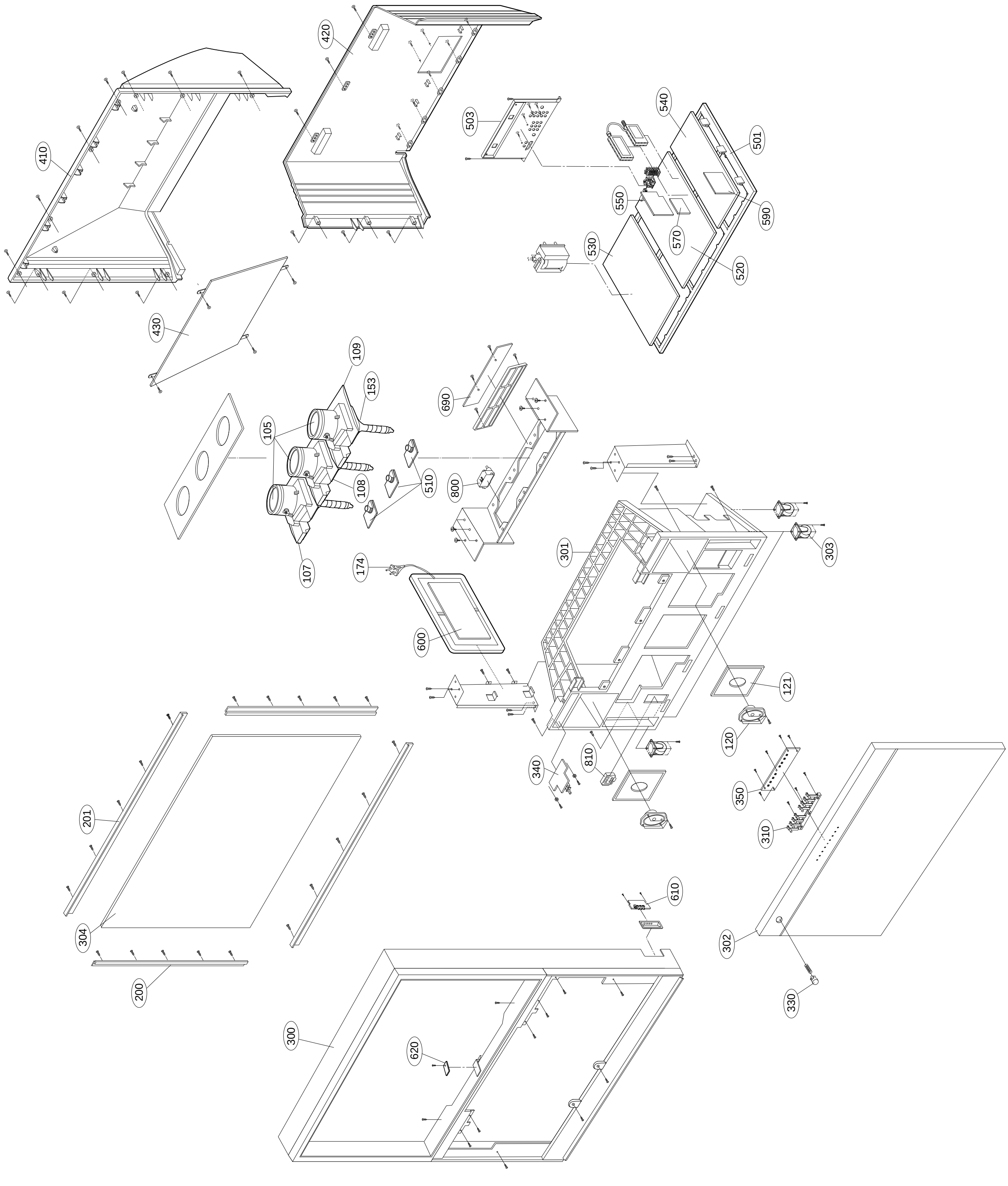

JH
MP-03AA SIDE AV
6870VS1462A(0)
030331 Y.G.S
JA1201
SIDE AV
P1201
R3
GND
L3
GND
V3
GND
Y3
GND
C3
GND
AV3-ID
S3
C1201
C1202
C1203
C1205
C1206
C1208
C1209
C1212
C1213
ZD1201
ZD1202
ZD1203
ZD1204
ZD1205
ZD1206
L1203
L1204
R1201
R1202
R1203
R1204
R1205
J1201
J1202
J1203
G1201
G1202
G1203
S-INPUT

PRE-AMP


GND
IR
B+
GND
PA01P
C02P
C01P
ZD01P
R01P
L01P
P03P
IR
GND
5V
SCREW
MP-03AA PREAMP
6870VS1476A(0)
030331 K.U.H

MEMO

EXPLODED VIEW(RE/RL-40NZ60RB)


420
410
503
540
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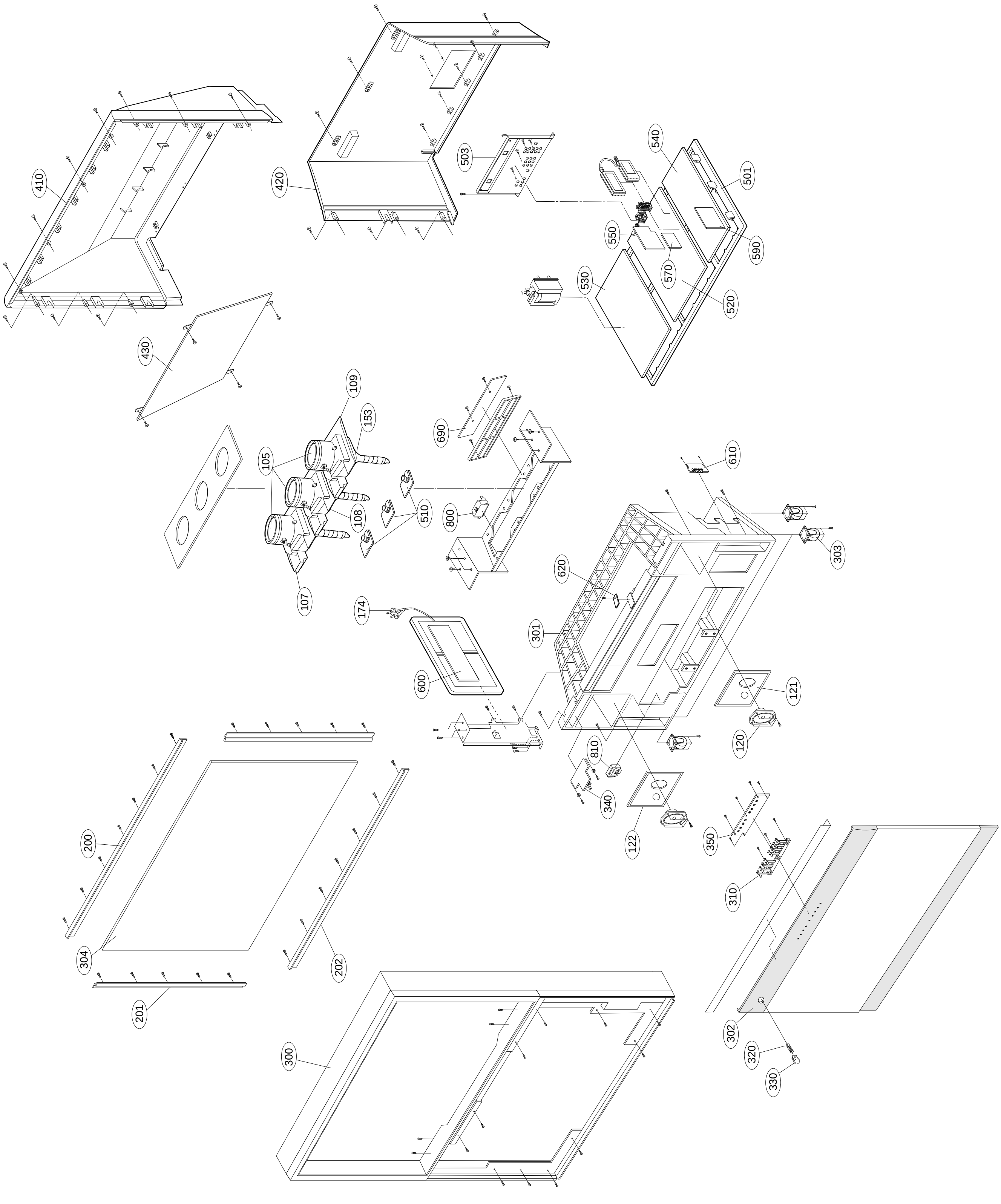
EXPLODED VIEW PARTS LIST

No.	Part No.	Description
105	3680V00109A	LENS, NON LENS RU-39NZ40H 3M-PO D-72 LENS ASSY
107	4810V00917G	BRACKET, PRT ASSY RE,L-40NZ60RB MP03AB NON RS CKD D-72 R CLENS+CPT+COUPLER
108	4810V00917H	BRACKET, PRT ASSY RE,L-40NZ60RB MP03AB NON RS CKD D-72 G CLENS+CPT+COUPLER
109	4810V00917J	BRACKET, PRT ASSY RE,L-40NZ60RB MP03AB NON RS CKD D-72 B CLENS+CPT+COUPLER
120	120-D38E	SPEAKER, MID-RANGE LG FOSTER 8 OHM 15/25W 87DB 12
153	6150Z-1100E	DY(DEFLECTION YOKE), 2.5H 38KHZ L 400MM 07”” LGPLD RN-39NZ33H 6150Z-1100B
174	174-322E	POWER CORD, W/FILTER L=400(179B)
200	4980V00899B	SUPPORTER, SCREEN SECC(EGI) TOP, SKD LGERS
201	4980V00900B	SUPPORTER, SCREEN SECC(EGI) SIDE, SKD LGERS
202	4980V00901B	SUPPORTER, SCREEN SECC(EGI) RU-40NZ60 (W/CKD)
300	3091V00500C	CABINET ASSEMBLY, RE-39NZ60RB STEREO MP03AB EXPORT MODEL
301	3091V00501C	CABINET ASSEMBLY, RE-39NZ60RB STEREO MP03AB 40AF EXPORT LGERS
302	3211V00128D	FRAME ASSEMBLY, FRONT LOWER RE-39NZ60RB 51SF EXPORT LGERS
303	4778V00079A	LEG, ROLLER CASTER RN-39NZ40 NON .
304	3350V00039B	SCREEN, DNP NON R3 39”(W) - SS ENG (C/SKD, 26A)
310	5020V00812C	BUTTON, CONTROL RE-39NZ60RB ABS, HF-380 8KEY SKD,LGERS
320	320-062E	SPRING, KNOB
330	5020V00797A	BUTTON, POWER RN-39NZ60H ABS 1KEY .
340	6871VSMX36A	PWB(PCB) ASSEMBLY,SUB PSW MP03AB POWER S/W 39NZ60 SKD RS
350	6871VSMW52A	PWB(PCB) ASSEMBLY,SUB CONT MP03AB M/I WIDE CONTROL RE-39NZ60RB
410	3809V00347C	BACK COVER ASSEMBLY, RE-39NZ60RB NON 51SF EXPORT LGERS
420	3809V00348C	BACK COVER ASSEMBLY, RE-39NZ60RB NON 40AF RE-39NZ60RB
430	5018V00050A	MIRROR, PROJECTION MIRRORLITE Mirror R3 39””(WIDE) FILM MIRROR
450	4810V00697B	BRACKET, SPEAKER RT-39NZ40RP MP015D HIPS 51SF LGESY
501	4810V00752C	BRACKET, MAIN RU-40NZ60 MP03AA HIPS 407AF
503	4810V00874B	BRACKET, REAR AV RE-39NZ60RB MP03AB HIPS 60HR
510	6871VSMV08B	PWB ASSEMBLY,SUB CPT MP03AB M/I EXPORT NO HIGH VOLTAGE LABEL
520	6871VMN658N	PWB ASSEMBLY, PWB MAIN MP03AB PAL SECAM BENELUX SKD RS
	6871VMN658H	PWB ASSEMBLY, PWB MAIN MP03AB RE-39NZ60RB ITALY
	6871VMN658G	PWB ASSEMBLY, PWB MAIN MP03AB RE-39NZ60RB GREECE
	6871VMN658U	PWB ASSEMBLY, PWB MAIN MP03AB PAL-EU RE-40NZ60RB SWEDEN SKD RS
	6871VMN658V	PWB ASSEMBLY, PWB MAIN MP03AB SECAM FRANCE RL-40NZ60RB SKD RS
530	6871VDM904A	PWB ASSEMBLY, DEFLECTIONPWB MAIN2 MP03AB M/I 16:9, NARROW, 100MM EUROPE
540	6871VSMC16A	PWB ASSEMBLY, SUB CVG MP03AB CONV-OUT M/I (PAL 2MODE)
550	6871VSMV80A	PWB ASSEMBLY, SUB DIGITAL MP03AB M/I PAL-EU W/O PC, W/ 1080I-ADJ RE-44NA14T.APSLKX
570	6871VSMV81N	PWB ASSEMBLY, SUB MP03AB PAL MICOM W/ TEXT BENELUX
	6871VSMV81G	PWB ASSEMBLY, SUB MP03AB PAL MICOM W/ TEXT 39NZ60 GREECE
	6871VSMV81U	PWB ASSEMBLY, SUB MP03AB M/I PAL-MICOM (W/ TXT) SWEDEN RE-40NZ60RB SKD RS
	6871VSMV81V	PWB ASSEMBLY, SUB MP03AB M/I PAL-MICOM (W/ TXT) FRANCE RL-40NZ60RB SKD RS
590	6871VSMC17A	PWB ASSEMBLY,SUB CVG MP03AB D-CON M/I
600	6871VPMA27A	PWB ASSEMBLY,POWER SUB MP-03AB AC-INPUT M/I EUROPE
610	6871VSMV11B	PWB ASSEMBLY,SUB S/IN MP03AB SIDE A/V NZ60
620	6871VSMX20A	PWB ASSEMBLY,SUB MP03AB PRE-AMP M/I
690	6871VSMV58B	PWB ASSEMBLY,SUB VM MP03AB EU,PALPWB
800	4410Z-A001L	FBT (FLY BACK TRANSFORMER), 4410Z-A001K 44" JW VE TYPE
810	180-836K	FOCUS PACK, W18-601-02 YINYANG 180-836H

EXPLODED VIEW(RE/RL-45NZ60RB)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EXPLODED VIEW PARTS LIST

No.	Part No.	Description
105	3680V00065B	LENS, NON NON CPL D-250 LENS ASSY
107	4810V00780R	BRACKET, PRT ASSY RE,RU-45NZ60 RS C/SKD MP03AB NON D-250 R CLENS+COUPLER+MDDA CPT
108	4810V00780S	BRACKET, PRT ASSY RE,RU-45NZ60 RS C/SKD MP03AB NON D-250 G CLENS+COUPLER+MDDA CPT
109	4810V00780T	BRACKET, PRT ASSY RE,RU-45NZ60 RS C/SKD MP03AB NON D-250 B CLENS+COUPLER+MDDA CPT
120	120-D38E	SPEAKER,MID-RANGE, LG FOSTER 8 OHM 15/25W 87DB 128X77MM
121	4810V00791D	BRACKET, SPEAKER RE-45NZ60RB MP03AB HIPS 60HR (LEFT), CKD
122	4810V00791C	BRACKET, SPEAKER RE-45NZ60RB MP03AB HIPS 60HR (RIGHT), CKD
153	6150Z-1100E	DY(DEFLECTION YOKE), 2.5H 38KHZ L 400MM 07 LGPLD RN-39NZ33H 6150Z-1100B
174	174-322E	POWER CORD, POWER W/FILTER L=400(179B)
200	4980V00958C	SUPPORTER, SCREEN SECC(EGI) (TOP), CKD
201	4980V00959C	SUPPORTER, SCREEN SECC(EGI) SIDE(L/R), CKD
202	4980V00960D	SUPPORTER, SCREEN SECC(EGI) (BOTTOM), CKD
300	3091V00549C	CABINET ASSEMBLY, RE-45NZ60RB NON MP03AB SKD PHANTOM
301	3091V00550C	CABINET ASSEMBLY, RE-45NZ60RB NON MP03AB LGERS PHANTOM
302	3211V00156E	FRAME ASSEMBLY, FRONT LOWER RE-45NZ60RB EXPORT LGERS
303	4778V00011B	LEG, ROLLER CASTER 3T
304	3350V00054A	SCREEN, KURARAY NON R3 44(W)
310	5020V00812C	BUTTON, CONTROL RE-39NZ60RB ABS, HF-380 8KEY SKD,LGERS
320	320-062E	SPRING, KNOB
330	5020V00818D	BUTTON, POWER RE-45NZ60RB ABS, HF-380 1KEY C/SKD
340	6871VSMW80C	PWB(PCB) ASSEMBLY,SUB PSW MP03AB M/I POWER S/W RE/L-45NZ60RB SKD RS
350	6871VSMW52C	PWB(PCB) ASSEMBLY,SUB CONT MP03AB M/I CONTROL RE-45NZ60RB
410	3809V00384C	BACK COVER ASSEMBLY, UPPER, RE-45NZ60RB NON EXPORT LGERS
420	3809V00385D	BACK COVER ASSEMBLY, LOWER, RE-45NZ60RB NON 3SCART , EXPORT LGERS
430	5018V00028B	MIRROR, PROJECTION MIRRORLITE Mirror R3 44(WIDE) FILM MIRROR
501	4810V00879A	BRACKET, MAIN RN-44NZ60 MP03AA HIPS 40AF
503	4810V00874B	BRACKET, REAR AV RE-39NZ60RB MP03AB HIPS 60HR
510	6871VSMV08B	PWB ASSEMBLY,SUB CPT MP03AB M/I EXPORT NO HIGH VOLTAGE LABEL
520	6871VMN658Z	PWB ASSEMBLY,MAIN MP03AB M/I PAL-EU (SWEDEN) SKD RS RE-45NZ60RB
530	6871VDM904C	PWB ASSEMBLY,DEFLECTION MAIN2 MP03AB M/I 16:9, NARROW, 150MM EUROPE
540	6871VSMC16A	PWB ASSEMBLY,SUB CVG MP03AB CONV-OUT M/I (PAL 2MODE)
550	6871VSMV80A	PWB ASSEMBLY,SUB DIGITAL MP03AB M/I PAL (W/O PC, W/ 1080I-ADJ) RE-44NA14T
570	6871VSMV81Z	PWB ASSEMBLY,SUB MP03AB MICOM(PAL) W/ TXT SWEDEN RE-45NZ60RB SKD RS
590	6871VSMC17A	PWB ASSEMBLY,SUB CVG MP03AB D-CON M/I
600	6871VPMA27A	PWB ASSEMBLY,POWER SUB MP-03AB AC-INPUT M/I EUROPE
610	6871VSMW32D	PWB ASSEMBLY,SUB S/IN MP03AB M/I SIDE-AV (1000MM) RE-45NZ60RB
620	6871VSMX19B	PWB ASSEMBLY,SUB P/AMP MP03AB M/I PRE-AMP (PAL) 1400MM (W/O HOLDER, W/ ANTI-VIBRATION TAPE)
690	6871VSMV58B	PWB ASSEMBLY,SUB VM MP03AB EU,PAL
800	4410Z-A001L	FBT (FLY BACK TRANSFORMER), 4410Z-A001K 44 JW VE TYPE
810	180-836K	FOCUS PACK, W18-601-02 YINYANG 180-836H

REPLACEMENT PARTS LIST

IC

LOCA. NO	PART NO	DESCRIPTION
D861	0ISK100300A	IC, DIODE MODULE(RU4AM+FMLG12S) LF816
IC01	0ISM555000A	IC, SDA5550 MQFP100 BK MICOM TXT MC006A
IC02	0IAL241610B	IC, AT24C16A-10PI-2.7 8PIN DIP ST EEPROM NON
IC03	0ISS610082A	IC, 32-TSOP R/TP 1M(8BIT-128K)-SRAM(3.3V),70NS
IC04	0IMCRAL003B	IC, AT24C164-10PI-2.7 ATMEL 8P PDIP ST EEPROM 164K
IC05	0IPMGSG017A	IC, LD1117DT25CTR STM 3P 2.5V 0.8A
IC06	0ISG111733A	IC, LD1117DT33C-TR 3, IC 3.3V,2.5K/REEL
IC07	0IZZVA0078A	IC, M27W201 32PLCC ST MICOM(PAL) 128TXT
IC07	0ISG272012A	IC, M27W201(2M BIT 3.3V) 32PLCC TP OTP EPROM MC006A
IC08	0IFA752700A	IC, KA75270Z 3 TP RE-SET IC MC-007
IC101	0IKE780500Q	IC, KIA7805API 3P TO-220 ST REGULATOR 5V(=KIA7805PI)
IC102	0IFA754207A	IC, KA75420ZTA(KA7542ZTA) 3P,TO-92 TP 4.2V RESET IC
IC103	0IKE780500Q	IC, KIA7805API 3P TO-220 ST REGULATOR 5V(=KIA7805PI)
IC103	0IKE780500Q	IC, KIA7805API 3P TO-220 ST REGULATOR 5V(=KIA7805PI)
IC104	0IKE780900M	IC, KIA7809API TO220 ST 3P 9V REGULATOR
IC105	0ISH052100C	IC, PQ05RD21 4SIP ST REGULATOR -
IC106	0ISH323422A	IC, PQ3RF23 4P(TO-220) 3.3V REGUL
IC107	0ISG111725B	IC, LD1117V25 3 SIP ST REGULATOR MC006A
IC2000	0ICTMSG001A	IC, STV2050A SGS-THOMSON 80PIN TQFP
IC2003	0ITI347000A	IC, LF347D 14P,SOP TP QUAD OPERATIONAL AMP
IC2004	0ITI347000A	IC, LF347D 14P,SOP TP QUAD OPERATIONAL AMP
IC2005	0IAL241610B	IC, AT24C16A-10PI-2.7 8PIN DIP ST EEPROM NON
IC2006	0IMCRAL003B	IC, AT24C164-10PI-2.7 ATMEL 8P PDIP ST EEPROM 164K
IC2007	0ISG111733B	IC, LD1117V33C 3SIP ST REGULATOR -
IC2020	0IMCRAL003B	IC, AT24C164-10PI-2.7 ATMEL 8P PDIP ST EEPROM 164K
IC2025	0IMCRAL003C	IC, AT24C164-10SI-2.7 ATMEL 8P SOIC R/TP EEPROM
IC2026	0IMCRAL003C	IC, AT24C164-10SI-2.7 ATMEL 8P SOIC R/TP EEPROM
IC2027	0IMCRAL003C	IC, AT24C164-10SI-2.7 ATMEL 8P SOIC R/TP EEPROM
IC2060	0IFA752700A	IC, KA75270Z 3 TP RE-SET IC MC-007
IC260	0IPMGSG016A	IC, LD1086D2T18TR STM 3P REGULATOR 1.8V 1.5A
IC261	0IPMGSG016A	IC, LD1086D2T18TR STM 3P REGULATOR 1.8V 1.5A
IC262	0IMCRMN016B	IC, VSP9427B-XZ-C3 MICRONAS 144P QFP
IC263	0ISA721700C	IC, LA7217M MFP14 TP SYNC SEPARATOR ML-00BA
IC264	0IMCRFA012A	IC, 16P SOIC R/TP 2LINE TO 1LINE DATA SELECTORS
IC265	0ICTMLG010A	IC, LGDT1000B LG IC QFP 128P TRAY DRP2
IC266	0IMCRSO008A	IC, CXA2151Q SONY 48P QFP TRAY 60LCD
IC2701	0ISA392120A	IC, STK392-120 18P,SIP BK
IC2702	0ISA392120A	IC, STK392-120 18P,SIP BK
IC401	0IKE358000A	IC, KIA358P DIP8 DUAL OP-AMP BK
IC402	0ISS393000G	IC, KA393 COMPARATOR 8DIP BK OP AMP
IC403	0IKE781200P	IC, KIA7812API TO220 ST 3P 12V REGULATOR
IC404	0ISA784600A	IC, 7846 SIP,10P BK V-OUT IC
IC405	0IFA754207A	IC, KA75420ZTA(KA7542ZTA) 3P,TO-92 TP 4.2V RESET IC
IC408	0IKE358000A	IC, KIA358P DIP8 DUAL OP-AMP BK
IC409	0ISS790500C	IC, KA7905 POWER INTEGRATION TO220 BK REGULATOR
IC410	0IKE780500Q	IC, KIA7805API 3P TO-220 ST REGULATOR 5V(=KIA7805PI)
IC500	0ISH122100B	IC, PQ12RD21 4SIP ST REGULATOR -
IC501	0IMCRSO013B	IC, CXA2180Q SONY 64P QFP TRAY BACK-END IC
IC502	0IKE780500Q	IC, KIA7805API 3P TO-220 ST REGULATOR 5V(=KIA7805PI)
IC503	0ISS393000G	IC, KA393 COMPARATOR 8DIP BK OP AMP
IC504	0IKE780900M	IC, KIA7809API TO220 ST 3P 9V REGULATOR
IC505	0IKE780500P	IC, KIA78L05BP(AT) 3P 5V,150MA
IC600	0IMCRMN001C	IC, MSP3411G QA B8 V3 MICRONAS 80P QFP
IC601	0IKE780800J	IC, KIA7808API 3 ST REGULATOR .
IC602	0ISS455880A	IC, KA4558D 8SOP OP AMP
IC700	0ISO206900A	IC, CXA2069Q QFP64 BK I2C BUS AV S/W
IC801	0ISK665813A	IC, STR-F6658B(LF1352) 5PIN SIP BK STR PN-43A3Y
IC802	0IPMGSK003A	IC, STR-A6351 SANKEN 8 DIP ST SMPS 1 CHIP
IC831	0ILI817000G	IC, LTV817M-VB 4P,DIP BK PHOTO COUPLER
IC832	0ILI817000G	IC, LTV817M-VB 4P,DIP BK PHOTO COUPLER
IC833	0ILI817000G	IC, LTV817M-VB 4P,DIP BK PHOTO COUPLER
IC851	0IMO257633A	IC, LM2576TV-3.3 5PIN ST REGULATOR HN-61A40R
IC881	0IKE782400C	IC, KIA7824API 3 ST REGULATOR .
IC891	0ISK105000A	IC, SE105N 105V ERROR AMP(NO.12)
IC901	0IZZVF0018C	IC, STK396-130 11P ST SCAN VELOCITY
IC901B	0IPH611190A	IC, TDA6111Q 9SIP RGB AMP
IC901G	0IPH611190A	IC, TDA6111Q 9SIP RGB AMP
IC901R	0IPH611190A	IC, TDA6111Q 9SIP RGB AMP
IC902	0IKE781200P	IC, KIA7812API TO220 ST 3P 12V REGULATOR
ICT01	0IMCRMI002A	IC, M62320P MITSUBISHI 16DIP ST I/O EXPANDER
ICX601	0IMCRNS006A	IC, LM4765T 15P TO220 ST AUDIO POWER AMP 30W

TRANSISTOR

LOCA. NO	PART NO	DESCRIPTION
IC11	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W TR
IC12	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W TR
IC13	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W TR
IC14	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W TR
IC15	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W TR
IC16	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W TR
IC17	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W TR
IC18	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W TR
IC19	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W TR
IC20	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W TR
IC21	0TR830009BA	TR, BSS83 TP PHILIPS NON N-CHANNEL S/W TR
Q07	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q08	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q100	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q100	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q101	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q101	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q102	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q103	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q104	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q106	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q107	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q108	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q109	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q110	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q111	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q112	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q113	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q114	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q115	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q116	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q117	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q118	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q119	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q13	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q200	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2001	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2002	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q2003	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2004	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q2005	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2013	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2014	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q2015	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2016	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q2201	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2202	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q2203	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2204	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2205	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2206	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2207	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2208	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2209	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q2210	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q2211	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q2212	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q2213	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q260	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q261	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q262	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q263	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q264	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q265	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q266	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q267	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q268	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q269	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q270	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q2700	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q2701	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q2702	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q2703	0TR126609AA	TR, KTA1266-Y(KTA1015) KEC TP TO92 50V 150MA
Q271	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q272	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q273	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q274	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q275	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q276	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q402	0TF630000CB	TR, FAIRCHILD IRFS630B ST TO220F 200V 6.5A

LOCA. NO	PART NO	DESCRIPTION
Q403	0TRTH10007A	TR, 2SC5858 TOSHIBA ST TO3P VCBO 1700V IC 22A
Q405	0TR126609AA	TR, KTA1266-Y(KTA1015) KEC TP TO92 50V 150MA
Q405	0TR126609AA	TR, KTA1266-Y(KTA1015) KEC TP TO92 50V 150MA
Q406	0TRFC10001A	TR, FAIRCHILD KSC5042F-YDTU ST TO220F 1500V 100MA
Q407	0TR126609AA	TR, KTA1266-Y(KTA1015) KEC TP TO92 50V 150MA
Q408	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q409	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q410	0TR126609AA	TR, KTA1266-Y(KTA1015) KEC TP TO92 50V 150MA
Q411	0TR205900AB	TR, KTD2059-Y TO-220IS KEC
Q413	0TF630000CB	TR, FAIRCHILD IRFS630B ST TO220F 200V 6.5A
Q416	0TR187900AA	TR, 2SD1879 BK SANYO
Q417	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q420	0TR421009CB	TR, BF421L(AMMO)TO-92 TP PHILIPS
Q423	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q424	0TR126609AA	TR, KTA1266-Y(KTA1015) KEC TP TO92 50V 150MA
Q428	0TR322709AA	TR, KTC3227-Y,TP(KTC1627A),KEC
Q432	0TR126609AA	TR, KTA1266-Y(KTA1015) KEC TP TO92 50V 150MA
Q500	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q501	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q502	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q503	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q504	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q505	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q506	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q507	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q508	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q509	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q510	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q511	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q512	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q513	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q514	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q600	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q601	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q602	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q603	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q606	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q607	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q608	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q609	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q610	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q611	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q612	0TR150400BA	TR, CHIP 2SA1504S(ASY) KEC
Q613	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q614	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q615	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q700	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q700	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q701	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q702	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q703	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC

LOCA. NO	PART NO	DESCRIPTION
Q703	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q704	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q705	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q706	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q707	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q708	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q709	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q710	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q711	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
Q802	0TR322709AA	TR, KTC3227-Y,TP(KTC1627A),KEC
Q831	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q832	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q872	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q891	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q901B	0TR437000BA	TR, KTC4370A-Y TO-220IS KEC
Q901G	0TR437000BA	TR, KTC4370A-Y TO-220IS KEC
Q901R	0TR437000BA	TR, KTC4370A-Y TO-220IS KEC
Q902B	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q902G	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q902R	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
Q905G	0TR126609AA	TR, KTA1266-Y(KTA1015) KEC TP TO92 50V 150MA
QT01	0TR319809AA	TR, KTC3198(KTC1815) KEC TP TO92 50V 150MA
QX100	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
QX101	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
QX102	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
QX103	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
QX104	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
QX105	0TR387500AA	TR, CHIP 2SC3875S(ALY) KEC
QX600	0TR322709AA	TR, KTC3227-Y,TP(KTC1627A),KEC

DIODE

LOCA. NO	PART NO	DESCRIPTION
D2701	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D2702	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D2703	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D401	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D402	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D403	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D404	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D406	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D409	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D410	0DD200009AH	DIODE, RU2AMV(1) TP SANKEN
D414	0DR150509BA	DIODE, PR1505G TP LITEON 250NSEC 5UA
D415	0DR150509BA	DIODE, PR1505G TP LITEON 250NSEC 5UA
D416	0DD340009EA	DIODE, BYW34 TP (2A/400V) TELEFUNKEN
D417	0DD340009EA	DIODE, BYW34 TP (2A/400V) TELEFUNKEN
D418	0DD340009EA	DIODE, BYW34 TP (2A/400V) TELEFUNKEN
D419	0DD200009AH	DIODE, RU2AMV(1) TP SANKEN
D420	0DD200009AH	DIODE, RU2AMV(1) TP SANKEN
D421	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D422	0DD150009CE	DIODE, GP15J TP GULF SEMICONDUCTOR LTD 600V
D423	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D424	0DD100009AQ	DIODE, RP1HV(1) TP SANKEN TP SANKEN
D425	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D430	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D431	0DR149379AA	DIODE, 1N4937G TP LITEON 200NSEC 5UA
D434	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D435	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D437	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D440	0DD200009AH	DIODE, RU2AMV(1) TP SANKEN
D488	0DD140009AA	DIODE, EK14 V(1) TP 40V 1.5A 40A 0.2US 5MA
D500	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D501	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D502	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D503	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D504	0DD100009AU	DIODE, EU1AV(1) TP SANKEN TP SANKEN
D505	0DD100009AU	DIODE, EU1AV(1) TP SANKEN TP SANKEN
D600	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D601	0DD184009AA	DIODE, KDS184S CHIP 85V 300MA KEC TP
D602	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D603	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D604	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D803	0DD100009AM	DIODE, EU1ZV(1) TP SANKEN
D804	0DD100009AM	DIODE, EU1ZV(1) TP SANKEN
D805	0DD100009AM	DIODE, EU1ZV(1) TP SANKEN
D805	0DD100009AM	DIODE, EU1ZV(1) TP SANKEN
D806	0DR010009AA	DIODE, EG01C TP SANKEN 1000V 0.5A 10A 100NSEC 50UA
D810	0DD100009AM	DIODE, EU1ZV(1) TP SANKEN
D811	0DD100009AM	DIODE, EU1ZV(1) TP SANKEN
D812	0DD100009AM	DIODE, EU1ZV(1) TP SANKEN
D813	0DR010009AA	DIODE, EG01C TP 1000V 0.5A 10A 100NSEC 50UA
D81A	0DD606000AA	DIODE, RBV606 SANKEN BK NA 600V 6A 150A NA 10UA
D81D	0DD110009DB	DIODE, RM11CV(1) TP SANKEN TP SANKEN
D81F	0DRSA00121A	DIODE, ST TO-220FM 600V 10A .A .SEC .A
D831	0DD420000BB	DIODE, D4L20U SHINDENGEN
D832	0DZ240009DC	DIODE, MTZJ2.4B TP ROHM-K DO34 0.5W 2
D841	0DD420000BB	DIODE, D4L20U SHINDENGEN
D842	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D851	0DD420000BB	DIODE, D4L20U SHINDENGEN
D852	0DR460009AA	DIODE, RK46 TP DO-214AC 60V 3.5A 70A 100SEC 3MA
D853	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D862	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D863	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D864	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D873	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D874	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D876	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D881	0DD100009AM	DIODE, EU1ZV(1) TP SANKEN
D891	0DD410000AD	DIODE, RU4AM,LF-L1 SANKEN SANKEN
D892	0DD410000AD	DIODE, RU4AM,LF-L1 SANKEN SANKEN
D901	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D901B	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D901G	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A

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LOCA. NO	PART NO	DESCRIPTION
D901R	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D902	0DS113379BA	DIODE, 1SS133 T-72 TP ROHM KOREA DO34 90V
D902B	0DD060009AC	DIODE, TVR06J TP - 600V 250NSEC
D902G	0DD060009AC	DIODE, TVR06J TP - 600V 250NSEC
D902R	0DD060009AC	DIODE, TVR06J TP - 600V 250NSEC
D903	0DD060009AC	DIODE, TVR06J TP - 600V 250NSEC
D903B	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D903G	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D903R	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D904B	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D904G	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D904R	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D905B	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D905G	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D905R	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D908B	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D908G	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D908R	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D911B	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D911G	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
D911R	0DR210009AC	DIODE, BAV21 TP PHILIPS DO35 200V 0.2A 1A 50SEC 100A
DT01	0DL100000AE	LEDSA5711(DL-1LO) BK AMBER+D504
Q403	0DR500000CA	DIODE, 1700V 10A 50A 500USEC 500UA
Q411	0DR360000AA	DIODE, FMG-36S BK SANKEN 2.2V 100NSEC 1.0MA
ZD100	0DZ330009DF	DIODE, MTZJ33B TP ROHM-K DO34 0.5W 33V 5UA
ZD100	0DZ330009DF	DIODE, MTZJ33B TP ROHM-K DO34 0.5W 33V 5UA
ZD101	0DZ330009DF	DIODE, MTZJ33B TP ROHM-K DO34 0.5W 33V 5UA
ZD2610	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD2611	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD2612	0DZRM00178A	DIODE, R/TP SMD 0.2W 5.1V 5MA -PF
ZD2805	0DZ240009DC	DIODE, MTZJ2.4B TP ROHM-K DO34 0.5W 2
ZD401	0DZ910009AJ	DIODE, MTZJ9.1B TP ROHM-K DO34 0.5W 9.1V 5UA
ZD404	0DZ240009DC	DIODE, MTZJ2.4B TP ROHM-K DO34 0.5W 2
ZD405	0DZ510009DB	DIODE, MTZJ5.1B TP ROHM-K DO34 - 5.1V 5UA
ZD406	0DZ510009DB	DIODE, MTZJ5.1B TP ROHM-K DO34 - 5.1V 5UA
ZD407	0DZ820009AH	DIODE, MTZJ8.2B TP ROHM-K DO34 - 8.2V 5UA
ZD410	0DZ560009CF	DIODE, MTZJ5.6B TP ROHM-K DO34 0.5W 5.6V 5UA
ZD411	0DZ130009CJ	DIODE, MTZJ13B TP ROHM-K DO34 0.5W 13V 5UA
ZD412	0DZ130009CJ	DIODE, MTZJ13B TP ROHM-K DO34 0.5W 13V 5UA
ZD503	0DZ910009AJ	DIODE, MTZJ9.1B TP ROHM-K DO34 0.5W 9.1V 5UA
ZD831	0DZ620009BB	DIODE, MTZJ6.2B TP ROHM-K DO34 0.5W 6.2V 5UA
ZD901B	0DZ560009CF	DIODE, MTZJ5.6B TP ROHM-K DO34 0.5W 5.6V 5UA
ZD901G	0DZ560009CF	DIODE, MTZJ5.6B TP ROHM-K DO34 0.5W 5.6V 5UA
ZD901R	0DZ560009CF	DIODE, MTZJ5.6B TP ROHM-K DO34 0.5W 5.6V 5UA
ZD902B	0DZ110009AD	DIODE, MTZJ11B TP ROHM-K DO34 - 11V 5UA
ZD902G	0DZ110009AD	DIODE, MTZJ11B TP ROHM-K DO34 - 11V 5UA
ZD902R	0DZ110009AD	DIODE, MTZJ11B TP ROHM-K DO34 - 11V 5UA

CAPACITOR

LOCA. NO	PART NO	DESCRIPTION
C02P	0CE476DD618	47UF STD 10V 20% FL TP 5
C03	0CE476DD618	47UF STD 10V 20% FL TP 5
C04	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C05	0CE476DD618	47UF STD 10V 20% FL TP 5
C06	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C07	0CE476DD618	47UF STD 10V 20% FL TP 5
C110	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C116	0CE108DD618	1000UF STD 10V M FL TP5
C118	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C1201	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C1202	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C1203	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C1205	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C1206	0CN1040K949	0.1M 50V Z F TA52
C13	0CE476DD618	47UF STD 10V 20% FL TP 5
C178	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C18	0CE476DD618	47UF STD 10V 20% FL TP 5
C184	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C189	0CH2103K516	10000P 50V K B 2.0X1.25 R/TP
C190	0CH2103K516	10000P 50V K B 2.0X1.25 R/TP
C195	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C196	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C198	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C199	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2032	0CC3310K405	330P 50V J SL TS
C2033	0CC3310K405	330P 50V J SL TS
C2034	0CC3310K405	330P 50V J SL TS
C2035	0CC3310K405	330P 50V J SL TS
C2036	0CC3310K405	330P 50V J SL TS
C2170	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C225	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C226	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C26	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C260	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C261	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C262	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C263	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C27	0CE476DD618	47UF STD 10V 20% FL TP 5
C2700	0CC3310K405	330P 50V J SL TS
C2704	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C2705	0CE225DK618	2.2UF STD 50V 20% FL TP 5
C2706	0CK1510K515	150P 50V K B TS
C2707	0CK1510K515	150P 50V K B TS
C2708	0CK1510K515	150P 50V K B TS
C2709	0CK1510K515	150P 50V K B TS
C271	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2710	0CK1510K515	150P 50V K B TS
C2711	0CK1510K515	150P 50V K B TS
C2712	0CK1030K945	0.01UF 50V Z F TR
C2713	0CK1030K945	0.01UF 50V Z F TR
C272	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C273	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C274	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R

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LOCA. NO	PART NO	DESCRIPTION
C275	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C276	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C277	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C2786	0CN1040K949	0.1M 50V Z F TA52
C279	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C285	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C286	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C287	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C288	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C289	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C29	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C290	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C293	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C294	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C295	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C296	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C297	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C298	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C299	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C300	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C301	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C302	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C303	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C304	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C305	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C306	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C307	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C308	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C309	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C310	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C311	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C312	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C315	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C316	0CE107VF6DC	100UF MV 16V 20% R/TP(SMD) SMD
C318	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C319	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C32	0CE476DD618	47UF STD 10V 20% FL TP 5
C320	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C322	0CE227VF6DC	220UF MV 16V 20% R/TP(SMD) SMD
C324	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C325	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C327	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C328	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C328	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SMD
C330	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C331	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C332	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C333	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C334	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C340	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C342	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R

LOCA. NO	PART NO	DESCRIPTION
C343	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C344	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C345	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C345	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C346	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C347	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C355	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C355	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C356	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C357	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C358	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C362	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C365	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C366	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C367	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C368	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C370	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) SMD
C371	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C372	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C373	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C374	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C380	0CE226SF6DC	22UF MVG 16V M SMD R/TP
C381	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C387	0CE476VF6DC	47UF MV 16V 20% R/TP(SMD) SMD
C40	0CE476DD618	47UF STD 10V 20% FL TP 5
C401	0CE6851K652	6.8UF SM,SA 50V 20% FM7.5 BP(S)
C405	0CE107DK618	100UF STD 50V M FL TP5
C406	181-013Y	MPP 0.82UF 400V 5%,-5% FM
C407	181-010S	0.0033UF 800V 5%,-5% FM PP
C409	181-009R	PP 200V 0.022UF K
C411	181-091G	DEHR33D471KN3A 470PF 2KV 10%,-10% R/TP DE0907-486
C412	0CE107DK618	100UF STD 50V M FL TP5
C412	0CE107DK618	100UF STD 50V M FL TP5
C413	0CE477DF618	470UF STD 16V 20% FL TP 5
C414	0CE477DF618	470UF STD 16V 20% FL TP 5
C415	181-091G	DEHR33D471KN3A 470PF 2KV 10%,-10% R/TP DE0907-486
C416	0CQ3341N401	0.33U 100V J POLY F5
C417	0CE106DR618	10UF STD 250V M FL TP5
C418	0CE107DF618	100UF STD 16V M FL TP5
C419	0CE227DD618	220UF STD 10V M FL TP5
C42	0CE106DF618	10UF STD 16V M FL TP5
C420	0CE107DK618	100UF STD 50V M FL TP5
C421	0CE106DK618	10UF STD 50V M FL TP5
C421	0CE106DK618	10UF STD 50V M FL TP5
C423	0CE107DK618	100UF STD 50V M FL TP5
C425	0CE107DK618	100UF STD 50V M FL TP5
C426	0CE107DK618	100UF STD 50V M FL TP5
C427	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C42A	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C435	0CQ1042K439	0.1UF S 50V 5% M/PE NI TP5
C436	181-015J	MPP 1600V 0.0086UF H

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LOCA. NO	PART NO	DESCRIPTION
C443	0CC1010K415	100P 50V J NP0 TS
C446	0CN1040K949	0.1M 50V Z F TA52
C449	0CE105DK618	1UF STD 50V M FL TP5
C45	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C452	0CE105DK618	1UF STD 50V M FL TP5
C455	0CQ1042K439	0.1UF S 50V 5% M/PE NI TP5
C461	0CK47202510	4700P 2KV K B S
C462	0CE226CR618	22UF SHL,SD 250V M FL TP 5
C464	181-015D	MPP 1600V 0.0062UF H
C466	0CE227DK618	220UF STD 50V M FL TP5
C467	0CE227DK618	220UF STD 50V M FL TP5
C468	181-009V	PP 200V 0.047UF K
C469	181-007D	MPE ECQ-V1H154JL3(TR), 50V 0.15UF J
C46D	0CE107DF618	100UF STD 16V M FL TP5
C46H	0CN1040K949	0.1M 50V Z F TA52
C46K	0CE106DK618	10UF STD 50V M FL TP5
C471	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C472	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C474	0CE107DK618	100UF STD 50V M FL TP5
C475	181-014N	MPP 1600V 0.01UF J
C476	181-014N	MPP 1600V 0.01UF J
C477	0CK1810W515	180P 500V K B TS
C478	0CE227BP650	220UF KME TYPE 160V 20% FM7.5 BULK
C478	0CE227BP650	220UF KME TYPE 160V 20% FM7.5 BULK
C484	0CE476DK618	47UF STD 50V M FL TP5
C486	0CE105DK618	1UF STD 50V M FL TP5
C491	0CN1040K949	0.1M 50V Z F TA52
C493	0CN1040K949	0.1M 50V Z F TA52
C49A	0CE106DK618	10UF STD 50V M FL TP5
C49B	0CE106DK618	10UF STD 50V M FL TP5
C500	0CE477DD618	470UF STD 10V M FL TP5
C502	181-007H	MPE ECQ-V1H474JL3(TR), 50V 0.47UF J
C503	0CE476DD618	47UF STD 10V 20% FL TP 5
C504	181-007H	MPE ECQ-V1H474JL3(TR), 50V 0.47UF
C506	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C507	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C508	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C509	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C510	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C511	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C512	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C513	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C514	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C515	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C516	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C517	0CE476DF618	47UF STD 16V M FL TP5
C518	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C519	0CE476DF618	47UF STD 16V M FL TP5
C521	0CE477DH618	470UF STD 25V M FL TP5
C522	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C523	181-442Z	PE,ECQ-B1H104KF3(TR)
C524	181-442Z	PE,ECQ-B1H104KF3(TR)
C525	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C527	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C528	181-007H	MPE ECQ-V1H474JL3(TR), 50V 0.47UF J
C529	0CE226DF618	22UF STD 16V M FL TP5
C530	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C532	0CE227DF618	220UF STD 16V M FL TP5
C535	0CE106DK618	10UF STD 50V M FL TP5
C537	0CE476DD618	47UF STD 10V 20% FL TP 5
C539	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C542	181-007H	MPE ECQ-V1H474JL3(TR), 50V 0.47UF J
C545	0CE107DF618	100UF STD 16V M FL TP5
C546	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C547	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C549	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C550	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C552	0CE108DF618	1000UF STD 16V M FL TP5
C552	0CE108BF618	1000UF KME 16V M FL TP5
C553	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C554	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C555	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C556	0CE107DF618	100UF STD 16V M FL TP5
C557	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C558	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C559	0CE107DF618	100UF STD 16V M FL TP5
C560	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C563	0CE476DF618	47UF STD 16V M FL TP5
C612	0CE106DF618	10UF STD 16V M FL TP5
C613	0CE476DF618	47UF STD 16V M FL TP5
C614	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C616	0CE476DF618	47UF STD 16V M FL TP5
C618	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C619	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C620	0CE335DK618	3.3UF STD 50V 20% FL TP 5
C621	0CE106DF618	10UF STD 16V M FL TP5
C622	0CE106DF618	10UF STD 16V M FL TP5
C623	0CE107DF618	100UF STD 16V M FL TP5
C624	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C629	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C634	0CE476DF618	47UF STD 16V M FL TP5
C649	0CE107DF618	100UF STD 16V M FL TP5
C651	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C662	0CE226DF618	22UF STD 16V M FL TP5
C663	0CE226DF618	22UF STD 16V M FL TP5
C668	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C670	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C671	0CE105DK618	1UF STD 50V M FL TP5
C676	0CE105DK618	1UF STD 50V M FL TP5
C676	0CE106DF618	10UF STD 16V M FL TP5
C677	0CE477DF618	470UF STD 16V 20% FL TP 5
C678	0CE105DK618	1UF STD 50V M FL TP5

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LOCA. NO	PART NO	DESCRIPTION
C678	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C679	181-442Z	PE,ECQ-B1H104KF3(TR)
C686	0CE106DK618	10UF STD 50V M FL TP5
C687	0CE106DK618	10UF STD 50V M FL TP5
C688	0CE227DH618	220UF STD 25V M FL TP5
C688	0CE227DF618	220UF STD 16V M FL TP5
C690	0CE227DD618	220UF STD 10V M FL TP5
C691	0CE227DD618	220UF STD 10V M FL TP5
C700	0CE227DF618	220UF STD 16V M FL TP5
C702	0CE227DF618	220UF STD 16V M FL TP5
C703	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C705	0CH2103K516	10000P 50V K B 2.0X1.25 R/TP
C709	0CE476DF618	47UF STD 16V M FL TP5
C711	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C718	0CE105DK618	1UF STD 50V M FL TP5
C719	0CE105DK618	1UF STD 50V M FL TP5
C720	0CE475CK636	4.7UF SHL,SD 50V 20% FM5 BP(D) TP
C721	0CE475CK636	4.7UF SHL,SD 50V 20% FM5 BP(D) TP
C723	0CE105DK618	1UF STD 50V M FL TP5
C724	0CE105DK618	1UF STD 50V M FL TP5
C725	0CE105DK618	1UF STD 50V M FL TP5
C726	0CE105DK618	1UF STD 50V M FL TP5
C727	0CE105DK618	1UF STD 50V M FL TP5
C728	0CK104DK56A	0.1UF 2012 50V 10% R/TP X7R
C730	0CE105DK618	1UF STD 50V M FL TP5
C734	0CE105DK618	1UF STD 50V M FL TP5
C735	0CE105DK618	1UF STD 50V M FL TP5
C740	0CE108DF618	1000UF STD 16V M FL TP5
C741	0CE227DF618	220UF STD 16V M FL TP5
C742	0CE108DH618	1000UF STD 25V M FL TP5
C743	0CE108DF618	1000UF STD 16V M FL TP5
C744	0CE477DD618	470UF STD 10V M FL TP5
C745	0CE477DD618	470UF STD 10V M FL TP5
C802	0CE3366W650	33UF SMS,SG 500V 20% FM7.5 BULK
C803	181-001K	CE 450V 220UF M LUG(105)
C804	181-011E	MPP 0.0033UF 1.6KV 5%,-5% FM PP
C805	0CE476DK618	47UF STD 50V M FL TP5
C805	0CE476BK618	47UF KME 50V M FL TP5
C807	181-091R	R 1000PF 1KV 10%,-10% R/TP TP5
C80A	0CQZVBK002B	A.C 275V 0.15UF K (S=22.5)
C810	0CE476DK618	47UF STD 50V M FL TP5
C811	0CE476DK618	47UF STD 50V M FL TP5
C813	181-010K	PP 0.01UF 630V 5% FM 7.5MM
C816	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C81B	0CQZVBK002B	A.C 275V 0.15UF K (S=22.5)
C81D	181-001K	CE 450V 220UF M LUG(105)
C82A	0CK10202510	1000P 2KV K B S
C82B	0CK10202510	1000P 2KV K B S
C82C	181-120P	470 PF 4KV K JE R FL 10
C82H	0CK10202510	1000P 2KV K B S
C82J	0CK10202510	1000P 2KV K B S
C830	181-120K	2200PF 4KV M E FMTW LEAD 4.5
C832	0CE337DF618	330UF STD 16V M FL TP5
C834	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C841	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C842	0CE228DF618	2200UF STD 16V M FL TP5
C851	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C852	0CE2286H61A	2200UF SMS,SG 25V 20% FL TP 7.5
C853	0CE108DF618	1000UF STD 16V M FL TP5
C854	0CE108DF618	1000UF STD 16V M FL TP5
C861	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C862	0CE228CL611	2200UF SHL,SD 63V M FL BK7.5
C863	0CE228CL611	2200UF SHL,SD 63V M FL BK7.5
C866	0CE475CK636	4.7UF SHL,SD 50V 20% FM5 BP(D) TP
C871	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C872	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C873	0CE228BK650	2200UF KME TYPE 50V 20% FM7.5 BULK
C874	0CE228BK650	2200UF KME TYPE 50V 20% FM7.5 BULK
C876	0CE105DK618	1UF STD 50V M FL TP5
C881	181-091Q	R 470PF 1KV 10%,-10% R/TP TP5
C882	0CE337DK618	330UF STD 50V M FL TP5
C884	0CE337DK618	330UF STD 50V M FL TP5
C888	0CE475BP618	4.7UF KME TYPE 160V 20% FL TP 5
C891	181-091R	R 1000PF 1KV 10%,-10% R/TP TP5
C892	0CE227BP650	220UF KME TYPE 160V 20% FM7.5 BULK
C893	0CE227BP650	220UF KME TYPE 160V 20% FM7.5 BULK
C895	181-091R	R 1000PF 1KV 10%,-10% R/TP TP5
C896	0CE227BP650	220UF KME TYPE 160V 20% FM7.5 BULK
C897	0CE107CP618	100U SHL 160V M FL TP5
C899	0CE475BP618	4.7UF KME TYPE 160V 20% FL TP 5
C901	0CE106BK618	10UF KME 50V M FL TP5
C901B	0CE107DF618	100UF STD 16V M FL TP5
C901G	0CE107DF618	100UF STD 16V M FL TP5
C901R	0CE107DF618	100UF STD 16V M FL TP5
C902	0CE106DH618	10UF STD 25V M FL TP5
C902B	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C902G	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C902R	0CE475DK618	4.7UF STD 50V 20% FL TP 5
C903	0CE107DH618	100UF STD 25V M FL TP5
C904	0CE107DF618	100UF STD 16V M FL TP5
C905	0CE107DH618	100UF STD 25V M FL TP5
C905R	0CC0200K115	2PF D 50V 0.5 PF NP0 TR
C906	0CE106DP618	10UF STD 160V M FL TP5
C906B	0CE476DR618	47UF STD 250V 20% FL TP 5
C906G	0CE476DR618	47UF STD 250V 20% FL TP 5
C906R	0CE476DR618	47UF STD 250V 20% FL TP 5
C907B	0CE106DR618	10UF STD 250V M FL TP5
C907G	0CE106DR618	10UF STD 250V M FL TP5
C907R	0CE106DR618	10UF STD 250V M FL TP5
C908	0CE107DF618	100UF STD 16V M FL TP5
C909	0CE107DK618	100UF STD 50V M FL TP5
C909B	0CK22202515	2200PF 2KV K B TR

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LOCA. NO	PART NO	DESCRIPTION
C909G	0CK22202515	2200PF 2KV K B TR
C909R	0CK22202515	2200PF 2KV K B TR
C910B	0CN1040K949	0.1M 50V Z F TA52
C910G	0CN1040K949	0.1M 50V Z F TA52
C910R	0CN1040K949	0.1M 50V Z F TA52
C911	181-007C	MPE ECQ-V1H104JL3(TR), 50V 0.1UF J
C911B	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C911G	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C911R	0CQZVBK002A	A.C 275V 0.1UF M (S=15)
C912	181-007C	MPE ECQ-V1H104JL3(TR), 50V 0.1UF J
C912B	0CK1030W510	0.01U 500V K B S
C912G	0CK1030W510	0.01U 500V K B S
C912R	0CK1030W510	0.01U 500V K B S
C913	0CC1510K405	150PF 50V J SL TR
C914	0CN1040K949	0.1M 50V Z F TA52
C915	181-091N	SL 100PF 1KV 10%,-10% R/TP TP5
C916	181-091N	SL 100PF 1KV 10%,-10% R/TP TP5
C917	0CK1030W510	0.01U 500V K B S
C936	0CE107BP61A	100UF KME 160V M FL TP7.5
C941	0CK1030W510	0.01U 500V K B S
CT03	0CN1040K949	0.1M 50V Z F TA52
CT04	0CE1074F618	100UF SRA 16V M FL TP5
CT05	0CN1040K949	0.1M 50V Z F TA52
CT06	0CE1074F618	100UF SRA 16V M FL TP5
CX101	0CE107DF618	100UF STD 16V M FL TP5
CX102	0CE106DF618	10UF STD 16V M FL TP5
CX103	0CE106DF618	10UF STD 16V M FL TP5
CX104	0CE106DF618	10UF STD 16V M FL TP5
CX113	0CE106DF618	10UF STD 16V M FL TP5
CX114	0CE106DF618	10UF STD 16V M FL TP5
CX115	0CE106DF618	10UF STD 16V M FL TP5
CX124	0CE107DF618	100UF STD 16V M FL TP5
CX600	0CE226DK618	22UF STD 50V M FL TP5
CX600	0CE475DK618	4.7UF STD 50V 20% FL TP 5
CX603	181-442Z	PE,ECQ-B1H104KF3(TR)
CX604	181-442Z	PE,ECQ-B1H104KF3(TR)
CX610	0CE104DK618	0.1000UF STD 50V M FL TP5
CX611	0CE106DK618	10UF STD 50V M FL TP5
CX612	181-442Z	PE,ECQ-B1H104KF3(TR)
CX613	0CE106DK618	10UF STD 50V M FL TP5
CX615	0CE226DK618	22UF STD 50V M FL TP5
CX616	0CE226DK618	22UF STD 50V M FL TP5
CX617	0CE108DK61A	1000UF STD 50V M FL TP7.5
CX618	0CE108DK61A	1000UF STD 50V M FL TP7.5
CX619	181-442Z	PE,ECQ-B1H104KF3(TR)
CX630	0CE228DK650	2200UF STD 50V M FM7.5 BULK
J81J	0CK10202510	1000P 2KV K B S
J81K	0CK10202510	1000P 2KV K B S

LOCA. NO	PART NO	DESCRIPTION
JACK		
JA1201	6613V00004R	JACK, PJ6054L PARK ELEC 4X1 4PIN S-VHS,YL(S/W),WH,RD
JK100	6612VMH002A	JACK,SCARTPMJ020A 2X21 PIN ABOVE 4.5MM
JK600	6613V00011A	JACK, SCART+A/V 2P(MONO) WH+RD(4.5 ABOVE)
JKX100	6612VJH022C	JACK,RCA PPJ125C 2X5 10PIN,COMPO-6,AD-4
COIL&TRANSFORMER		
L01P	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L100	0LA0102K139	INDUCTOR, 10UH K 4*10.5 TP
L100	0LA0102K139	INDUCTOR, 10UH K 4*10.5 TP
L102	0LA0102K139	INDUCTOR, 10UH K 4*10.5 TP
L105	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L107	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L109	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L110	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L111	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L112	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L113	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L114	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L115	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L116	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L118	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L119	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L120	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L1203	0LA0472K119	INDUCTOR, 47UH K 2.3*3.4 TP
L1204	0LA0472K119	INDUCTOR, 47UH K 2.3*3.4 TP
L121	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L122	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L123	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L261	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L265	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L2700	150-C02F	COIL,CHOKE82UH PHY TURN
L2701	150-C02F	COIL,CHOKE82UH PHY TURN
L2702	150-C02F	COIL,CHOKE82UH PHY TURN
L2703	150-C02F	COIL,CHOKE82UH PHY TURN
L2704	0LA0101K119	INDUCTOR, 1.0UH K 2.3*3.4 TP
L2705	0LA0101K119	INDUCTOR, 1.0UH K 2.3*3.4 TP
L2706	0LA0101K119	INDUCTOR, 1.0UH K 2.3*3.4 TP
L2707	0LA0101K119	INDUCTOR, 1.0UH K 2.3*3.4 TP
L2708	0LA0101K119	INDUCTOR, 1.0UH K 2.3*3.4 TP
L2709	0LA0101K119	INDUCTOR, 1.0UH K 2.3*3.4 TP
L2711	0LA0102K139	INDUCTOR, 10UH K 4*10.5 TP
L2712	0LA0102K139	INDUCTOR, 10UH K 4*10.5 TP
L401	150-717J	COIL,CHOKECHOKE 560UH (E/W)
L402	6140VE0001Z	COIL,LINEARITY27.5TURN YL-9N 20-20 C:8.5 RUBBER PAD
L404	0LA1001K139	INDUCTOR, 1000UH 10% A 4.0 X 10.5 TA52 -
L405	150-717J	COIL,CHOKECHOKE 560UH (E/W)
L405	150-717K	COIL,CHOKE1.1UH PHY TURN
L500	0LA0222K119	INDUCTOR, 22UH K 2.3*3.4 TP
L501	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP

LOCA. NO	PART NO	DESCRIPTION
L502	0LA0222K119	INDUCTOR, 22UH K 2.3*3.4 TP
L503	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
L612	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L613	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
L702	150-C02F	COIL,CHOKE82UH PHY TURN
L703	150-C02F	COIL,CHOKE82UH PHY TURN
L704	150-C02F	COIL,CHOKE82UH PHY TURN
L852	6170VZ0005A	TRANSFORMER, IRON-15 120UH LM2576,ND00GA
L861	150-C02F	COIL,CHOKE82UH PHY TURN
L891	150-C02F	COIL,CHOKE82UH PHY TURN
L892	150-C02F	COIL,CHOKE82UH PHY TURN
L901	150-C02F	COIL,CHOKE82UH PHY TURN
L902	150-C02F	COIL,CHOKE82UH PHY TURN
LT01	0LA0102K119	INDUCTOR, 10UH K 2.3*3.4 TP
LX101	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
LX102	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
LX103	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
LX104	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
LX106	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
LX107	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
LX108	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
LX109	0LC1032101A	INDUCTOR, 10UH 10% 3216 R/TC FI-C3216-103KJT
T401	6170VC0009A	TRANSFORMER, EI-2519 8700UH MP03AA
T401	151-515A	TRANSFORMER,HORIZONTAL DRIVEREI 2519 4.5MH CF201
T402	6170VC0009A	TRANSFORMER, EI-2519 8700UH MP03AA
T405	6170VMCA13R	TRANSFORMER,SMPS[COIL]EER4215 1.2UUH MP03AA
T406	151-E06A	TRANSFORMER,POWEREER2834 0UH
T801	6170VMCC01F	TRANSFORMER,SMPS[COIL]EER5345 220UUH MP03AA
T805	6170VS0004B	TRANSFORMER,STAND-BYEE2229 2200UUH MP03AA
T81A	6170VZ0008A	TRANSFORMER, TS4841 30500UH REACTOR TRANS
T81B	6170VZ0008A	TRANSFORMER,HORIZONTAL DRIVERTS4841 30500UH

CONNECTOR

LOCA. NO	PART NO	DESCRIPTION
GND2B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
GND2G	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
GND2R	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
GND3B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
GND3G	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
GND3R	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
GND4B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
GND4G	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
GND4R	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
GND7B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
GND8B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
GND8G	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
GND8R	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
GND9B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P001A	366-043H	CONNECTOR, ASSY,PLUG (4P)
P003B	366-921G	CONNECTOR, 2.5MM 8P GIL-G LG CABLE .
P005B	366-921N	CONNECTOR, WAFER IL-G 14(2.5S)
P00B	366-043D	CONNECTOR, ASSY,PLUG(4P)
P00G	366-043D	CONNECTOR, ASSY,PLUG(4P)
P00R	366-043D	CONNECTOR, ASSY,PLUG(4P)
P01A	366-173G	CONNECTOR, 2.5MM 8*2P AEPH-254 A/K R/A
P02	366-173N	CONNECTOR, AEPH254-D28R(14*2)
P03	366-173L	CONNECTOR, 2.5MM 12*2P AEPH-254 A/K R/N
P03A	366-173G	CONNECTOR, 2.5MM 8*2P AEPH-254 A/K R/A
P03P	366-921B	CONNECTOR, 2.5MM 3P GIL-G LG CABLE .
P04	366-922B	CONNECTOR, 2.5MM 3P GIL-G LG CABLE R/A (B TO C)
P100	6631V25A04A	CONNECTOR, 14P 2.5MM 100MM H-B UL1007 AWG26
P101	387-A08A	CONNECTOR, 8P 2.5MM 100MM H-B UL1007AWG26
P104	366-932E	CONNECTOR, 2.5MM 6P GIL-G LG CABLE S
P105	366-932D	CONNECTOR, 2.5MM 5P GIL-G LG CABLE S
P107	366-921G	CONNECTOR, 2.5MM 8P GIL-G LG CABLE .
P107	366-921L	CONNECTOR, 2.5MM 12P GIL-G LG CABLE .
P110	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P1201	366-921L	CONNECTOR, 2.5MM 12P GIL-G LG CABLE .
P2001	366-173L	CONNECTOR, 2.5MM 12*2P AEPH-254 A/K R/N
P2002	6602V25002C	CONNECTOR, 2.5MM 4P EH-A JST .
P2003	6602V25002C	CONNECTOR, 2.5MM 4P EH-A JST .
P2004	6602V25002C	CONNECTOR, 2.5MM 4P EH-A JST .
P260	6630V600932	CONNECTOR, 32P 2.54MM MALE B-B
P261	6630V600932	CONNECTOR, 32P 2.54MM MALE B-B
P401	366-921G	CONNECTOR, 2.5MM 8P GIL-G LG CABLE .
P401A	387-A08A	CONNECTOR, 8P 2.5MM 100MM H-B UL1007AWG26
P403	366-921H	CONNECTOR, 2.5MM 9P GIL-G LG CABLE .
P403A	387-A09A	CONNECTOR, 9P 2.5MM 100MM H-B UL1007AWG26
P404	366-921F	CONNECTOR, 2.5MM 7P GIL-G LG CABLE .
P404	366-173E	CONNECTOR, 2.5MM 6*2P AEPH-254 A/K R/A
P404A	387-A07A	CONNECTOR, 7P 2.5MM 100MM H-B UL 1007 AWG 26
P405A	366-932D	CONNECTOR, 2.5MM 5P GIL-G LG CABLE S
P406A	366-932E	CONNECTOR, 2.5MM 6P GIL-G LG CABLE S
P410A	366-043H	CONNECTOR, ASSY,PLUG (4P)
P411A	387-A06J	CONNECTOR, 6P 2.5MM 500MM H-B UL1007AWG26
P415	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P416	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P417	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P420	366-932B	CONNECTOR, 2.5MM 3P GIL-G LG CABLE S
P421	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P42A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P42B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P42C	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P500	6630N600132	CONNECTOR, DIN41612-B49-FL32 REXCONN 32P 2.54MM
P501	6630N600132	CONNECTOR, 32P 2.54MM FEMALE B-B
P502	366-932C	CONNECTOR, 2.5MM 4P GIL-G LG CABLE S
P502	387-B04H	CONNECTOR, ASSY,4P SHIELD WIRE (L=450)
P503	366-921J	CONNECTOR, 2.5MM 10P GIL-G LG CABLE .
P700	366-921L	CONNECTOR, 2.5MM 12P GIL-G LG CABLE .
P801A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P801B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P801C	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P801D	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN : Ceramic CQ : Polyestor CE : Electrolytic	RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
P804	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P805	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P810	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P811B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P811C	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P81A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P81B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P81C	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P81D	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P82A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P82B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P82C	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P83A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P83B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P841	366-921N	CONNECTOR, WAFER IL-G 14(2.5S)
P841A	6631V25A04A	CONNECTOR, 14P 2.5MM 100MM H-B UL1007 AWG26
P84A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P84B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P84C	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P84D	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P861	366-932C	CONNECTOR, 2.5MM 4P GIL-G LG CABLE S
P861A	387-A04A	CONNECTOR, 4P 2.5MM 100MM H-B UL1007AWG26
P880A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P880B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P880C	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P881A	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P881B	366-009D	CONNECTOR, 2.36PAI 1P . K/M AUTO
P901B	366-921J	CONNECTOR, 2.5MM 10P GIL-G LG CABLE .
P902B	366-921D	CONNECTOR, 2.5MM 5P GIL-G LG CABLE .
P903A	6631V00017E	CONNECTOR, 9P 2.5MM 300MM H-B UL1007 AWG26
P903B	366-921H	CONNECTOR, 2.5MM 9P GIL-G LG CABLE .
P904A	6631V00017E	CONNECTOR, 9P 2.5MM 300MM H-B UL1007 AWG26
P904B	366-921H	CONNECTOR, 2.5MM 9P GIL-G LG CABLE .
PSVM1A	366-932B	CONNECTOR, 2.5MM 3P GIL-G LG CABLE S
PSVM2A	366-932B	CONNECTOR, 2.5MM 3P GIL-G LG CABLE S
PSVM3A	366-932B	CONNECTOR, 2.5MM 3P GIL-G LG CABLE S
PSVM4	366-932C	CONNECTOR, 2.5MM 4P GIL-G LG CABLE S
PSVM5A	366-932B	CONNECTOR, 2.5MM 3P GIL-G LG CABLE S
PSVM5B	366-932B	CONNECTOR, 2.5MM 3P GIL-G LG CABLE S
PSVM7	366-932C	CONNECTOR, 2.5MM 4P GIL-G LG CABLE S
PT01	366-922G	CONNECTOR, 2.5MM 8P GIL-G LG CABLE R/A

RESISTOR

LOCA. NO	PART NO	DESCRIPTION
AR01	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR01	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR02	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR02	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR03	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR03	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR04	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR04	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR05	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR05	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR06	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR06	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR07	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR08	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR09	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR10	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
AR11	0RRZVTA001A	MNR-14-E0A-J-101 R OHM 100 OHM 5% CHIP 100 OHM*4
L204	0RN1001G509	1K OHM 1/4 W 2.00% TA52
L403	0RF0111K607	1.1 OHM 2 W 5.00% TA62
R114	0RD2201H609	2.2K OHM 1/2 W 5.00% TA52
R114	0RD2201H609	2.2K OHM 1/2 W 5.00% TA52
R1201	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R1202	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R1203	0RD0752F609	75 OHM 1/6 W 5.00% TA52
R1204	0RD2403F609	240K OHM 1/6 W 5.00% TA52
R1205	0RD2403F609	240K OHM 1/6 W 5.00% TA52
R127	0RD2201H609	2.2K OHM 1/2 W 5.00% TA52
R2095	0RF0470K607	0.47 OHM 2 W 5.00% TA62
R2096	0RF0470K607	0.47 OHM 2 W 5.00% TA62
R260	0RS0102K607	10 OHM 2 W 5.00% TA62
R261	0RS0102K607	10 OHM 2 W 5.00% TA62
R2700	0RS2200K607	220 OHM 2 W 5.00% TA62
R2703	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R2704	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R2705	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R2706	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R2707	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R2708	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R2709	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R2710	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R2711	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R2712	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R2713	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R2714	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R2715	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R2716	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R2717	0RD2702F609	27K OHM 1/6 W 5.00% TA52
R2718	0RD2702F609	27K OHM 1/6 W 5.00% TA52
R2719	0RD4702F609	47K OHM 1/6 W 5% TA52
R2720	0RD4702F609	47K OHM 1/6 W 5% TA52
R2721	0RD4702F609	47K OHM 1/6 W 5% TA52
R2722	0RD4702F609	47K OHM 1/6 W 5% TA52
R2723	0RD4702F609	47K OHM 1/6 W 5% TA52
R2724	0RD4702F609	47K OHM 1/6 W 5% TA52
R2725	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2726	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2727	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2728	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2729	0RS0391K607	3.9 OHM 2 W 5.00% TA62

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN : Ceramic
CQ : Polyestor
CE : Electrolytic

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
R2730	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2731	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2732	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2733	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2734	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2735	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2736	0RS0391K607	3.9 OHM 2 W 5.00% TA62
R2737	0RS2200K607	220 OHM 2 W 5.00% TA62
R2738	0RS2200K607	220 OHM 2 W 5.00% TA62
R2739	0RS2200K607	220 OHM 2 W 5.00% TA62
R2740	0RS2200K607	220 OHM 2 W 5.00% TA62
R2741	0RS2200K607	220 OHM 2 W 5.00% TA62
R2742	0RS2200K607	220 OHM 2 W 5.00% TA62
R2743	0RS2200K607	220 OHM 2 W 5.00% TA62
R2744	0RS2200K607	220 OHM 2 W 5.00% TA62
R2745	0RS2200K607	220 OHM 2 W 5.00% TA62
R2746	0RS2200K607	220 OHM 2 W 5.00% TA62
R2747	0RS2200K607	220 OHM 2 W 5.00% TA62
R2748	0RD1000F609	100 OHM 1/6 W 5% TA52
R2780	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R2781	0RD1001F609	1K OHM 1/6 W 5% TA52
R2782	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R2783	0RD1001F609	1K OHM 1/6 W 5% TA52
R2784	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R2785	0RD1001F609	1K OHM 1/6 W 5% TA52
R2786	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R2787	0RD1001F609	1K OHM 1/6 W 5% TA52
R2788	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R2789	0RD1001F609	1K OHM 1/6 W 5% TA52
R2790	0RD1601F609	1.6K OHM 1/6 W 5.00% TA52
R2791	0RD1001F609	1K OHM 1/6 W 5% TA52
R2792	0RD1002F609	10K OHM 1/6 W 5% TA52
R2793	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R2794	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R2795	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R2796	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R2797	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R2798	0RD1002F609	10K OHM 1/6 W 5% TA52
R316	0RN1002F409	10K OHM 1/6 W 1.00% TA52
R400	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
R401	0RD1200H609	120 OHM 1/2 W 5.00% TA52
R402	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R403	0RD1200H609	120 OHM 1/2 W 5.00% TA52
R403	0RS2200K607	220 OHM 2 W 5.00% TA62
R404	0RD6200F609	620 OHM 1/6 W 5.00% TA52
R405	0RS3902K607	39K OHM 2 W 5.00% TA62
R405	0RS3902K607	39K OHM 2 W 5.00% TA62
R406	0RS3902K607	39K OHM 2 W 5.00% TA62
R407	0RS3902K607	39K OHM 2 W 5.00% TA62
R408	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R409	0RS5101H609	5.1K OHM 1/2 W 5.00% TA52

LOCA. NO	PART NO	DESCRIPTION
R40A	0RD4702F609	47K OHM 1/6 W 5% TA52
R40C	0RD7501F609	7.5K OHM 1/6 W 5.00% TA52
R40C	0RD7501F609	7.5K OHM 1/6 W 5.00% TA52
R40D	0RD1800F609	180 OHM 1/6 W 5.00% TA52
R40E	0RD7502H609	75K OHM 1/2 W 5.00% TA52
R40F	0RS1002H609	10K OHM 1/2 W 5.00% TA52
R40F	0RS1002H609	10K OHM 1/2 W 5.00% TA52
R40G	0RD0682F609	68 OHM 1/6 W 5.00% TA52
R40H	0RD3300F609	330 OHM 1/6 W 5.00% TA52
R40I	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R40J	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R40K	0RD2403H609	240K OHM 1/2 W 5.00% TA52
R40L	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R40M	0RD2001H609	2K OHM 1/2 W 5.00% TA52
R40N	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
R40P	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R40Q	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R40Q	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R40T	0RD1001F609	1K OHM 1/6 W 5% TA52
R40T	0RD1001F609	1K OHM 1/6 W 5% TA52
R40U	0RD1602F609	16K OHM 1/6 W 5.00% TA52
R40V	0RD2401F609	2.4K OHM 1/6 W 5.00% TA52
R40W	0RD2002F609	20K OHM 1/6 W 5.00% TA52
R40W	0RD2002F609	20K OHM 1/6 W 5.00% TA52
R40X	0RD0102F609	10 OHM 1/6 W 5% TA52
R40Y	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
R40Z	0RD4700H609	470 OHM 1/2 W 5.00% TA52
R410	0RS6801K607	6.8K OHM 2 W 5.00% TA62
R411	0RD1502H609	15K OHM 1/2 W 5.00% TA52
R412	0RD1801H609	1.8K OHM 1/2 W 5.00% TA52
R413	0RS3902K607	39K OHM 2 W 5.00% TA62
R414	0RF0201K607	2 OHM 2 W 5.00% TA62
R415	0RF0201K607	2 OHM 2 W 5.00% TA62
R416	180-C02M	5.6K OHM 1/2 W 10% TA52 ERC12GK562V
R417	0RD1501H609	1.5K OHM 1/2 W 5.00% TA52
R418	0RD1002F609	10K OHM 1/6 W 5% TA52
R419	0RS0221H609	2.2 OHM 1/2 W 5.00% TA52
R41A	0RD1000F609	100 OHM 1/6 W 5% TA52
R41B	0RD1001F609	1K OHM 1/6 W 5% TA52
R41C	0RD1200H609	120 OHM 1/2 W 5.00% TA52
R41D	0RD1002F609	10K OHM 1/6 W 5% TA52
R41E	0RD1200H609	120 OHM 1/2 W 5.00% TA52
R41G	0RD2200H609	220 OHM 1/2 W 5.00% TA52
R41K	0RD8202F609	82K OHM 1/6 W 5.00% TA52
R41P	0RD1200H609	120 OHM 1/2 W 5.00% TA52
R41R	0RD1200H609	120 OHM 1/2 W 5.00% TA52
R420	0RD3302F609	33K OHM 1/6 W 5% TA52
R421	0RD0102F609	10 OHM 1/6 W 5% TA52
R423	0RS1500K607	150 OHM 2 W 5.00% TA62
R425	0RF0111K607	1.1 OHM 2 W 5.00% TA62
R426	0RF0141K607	1.4 OHM 2 W 5.00% TA62

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CC, CX, CK, CN : Ceramic
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CE : Electrolytic

RD : Carbon Film
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RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
R428	0RN5601F409	5.6K OHM 1/6 W 1.00% TA52
R429	0RD1303F609	130K OHM 1/6 W 5.00% TA52
R42A	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R430	0RS4702H609	47K OHM 1/2 W 5.00% TA52
R431	0RS0101H609	1 OHM 1/2 W 5.00% TA52
R432	0RD4700H609	470 OHM 1/2 W 5.00% TA52
R432	0RD4700H609	470 OHM 1/2 W 5.00% TA52
R433	0RF0561K607	5.6 OHM 2 W 5.00% TA62
R434	0RF0141K607	1.4 OHM 2 W 5.00% TA62
R435	0RN5601F409	5.6K OHM 1/6 W 1.00% TA52
R436	0RD1102F609	11K OHM 1/6 W 5.00% TA52
R437	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R438	0RD2001F609	2K OHM 1/6 W 5% TA52
R439	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R440	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R441	0RD1102F609	11K OHM 1/6 W 5.00% TA52
R442	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R443	0RD0472F609	47 OHM 1/6 W 5% TA52
R445	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R449	0RD1002F609	10K OHM 1/6 W 5% TA52
R450	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R451	0RD1001F609	1K OHM 1/6 W 5% TA52
R452	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R453	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R454	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R454	0RS0470H609	0.47 OHM 1/2 W 5.00% TA52
R455	0RD1000H609	100 OHM 1/2 W 5.00% TA52
R457	0RD1000F609	100 OHM 1/6 W 5% TA52
R458	0RD3003F609	300K OHM 1/6 W 5.00% TA52
R459	0RD1002F609	10K OHM 1/6 W 5% TA52
R460	0RD2702F609	27K OHM 1/6 W 5.00% TA52
R461	0RD1002F609	10K OHM 1/6 W 5% TA52
R463	0RD1001F609	1K OHM 1/6 W 5% TA52
R464	0RD2001F609	2K OHM 1/6 W 5% TA52
R465	0RD4700F609	470 OHM 1/6 W 0.05 TA52
R466	0RD1001F609	1K OHM 1/6 W 5% TA52
R467	0RD1000F609	100 OHM 1/6 W 5% TA52
R468	0RD4700F609	470 OHM 1/6 W 0.05 TA52
R468	0RD4700F609	470 OHM 1/6 W 0.05 TA52
R469	0RS3900K607	390 OHM 2 W 5.00% TA62
R46A	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R46D	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R470	0RS2002H609	20K OHM 1/2 W 5.00% TA52
R473	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R474	0RD2701H609	2.7K OHM 1/2 W 5.00% TA52
R475	0RD2200H609	220 OHM 1/2 W 5.00% TA52
R476	0RS3900K607	390 OHM 2 W 5.00% TA62
R477	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R478	0RS2001K607	2K OHM 2 W 5.00% TA62
R479	0RD5601F609	5.6K OHM 1/6 W 5% TA52
R480	0RS2001K607	2K OHM 2 W 5.00% TA62

LOCA. NO	PART NO	DESCRIPTION
R481	0RS3902K607	39K OHM 2 W 5.00% TA62
R482	0RS3902K607	39K OHM 2 W 5.00% TA62
R483	0RN2002F409	20K OHM 1/6 W 1.00% TA52
R484	0RN9102F409	91K OHM 1/6 W 1.00% TA52
R485	0RS0561K607	5.6 OHM 2 W 5.00% TA62
R486	0RS1002H609	10K OHM 1/2 W 5.00% TA52
R487	0RS0561K607	5.6 OHM 2 W 5.00% TA62
R487	0RS0202K607	20 OHM 2 W 5.00% TA62
R488	180-A01B	RW ROUND G 2W 0.11 K TA31(63)
R488	180-A01E	2 W RW ROUND G 2W 0.33J TA31(63)
R489	0RD0472F609	47 OHM 1/6 W 5% TA52
R490	0RN2202F409	22K OHM 1/6 W 1.00% TA52
R491	180-A01B	RW ROUND G 2W 0.11 K TA31(63)
R492	0RD1303F609	130K OHM 1/6 W 5.00% TA52
R493	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
R494	0RF0121H609	1.2 OHM 1/2 W 5.00% TA52
R495	0RD1001F609	1K OHM 1/6 W 5% TA52
R496	0RD1602F609	16K OHM 1/6 W 5.00% TA52
R497	0RD7501F609	7.5K OHM 1/6 W 5.00% TA52
R498	0RS2702H609	27K OHM 1/2 W 5.00% TA52
R499	0RD2002F609	20K OHM 1/6 W 5.00% TA52
R694	0RD1001H609	1K OHM 1/2 W 5.00% TA52
R695	0RD1001H609	1K OHM 1/2 W 5.00% TA52
R802	0RD1001F609	1K OHM 1/6 W 5% TA52
R803	180-A01D	RW ROUND G 2W 0.16 J TA31(63)
R804	180-A01D	RW ROUND G 2W 0.16 J TA31(63)
R805	0RD0562H609	56 OHM 1/2 W 5.00% TA52
R807	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R808	0RD3301F609	3.3K OHM 1/6 W 5.00% TA52
R811	0RD1802F609	18K OHM 1/6 W 5.00% TA52
R815	0RD1001F609	1K OHM 1/6 W 5% TA52
R817	0RD1003H609	100K OHM 1/2 W 5.00% TA52
R818	0RD1003H609	100K OHM 1/2 W 5.00% TA52
R819	0RS0470H609	0.47 OHM 1/2 W 5.00% TA52
R81A	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR(METAL GLAZED TYPE)
R820	0RS1203K607	120K OHM 2 W 5.00% TA62
R821	0RS0331H609	3.3 OHM 1/2 W 5.00% TA52
R827	0RD0681H609	6.8 OHM 1/2 W 5.00% TA52
R828	0RD2001H609	2K OHM 1/2 W 5.00% TA52
R829	0RD1001F609	1K OHM 1/6 W 5% TA52
R830	180-C02J	ERC12GK106V(RC 1/2W 10M K TA)
R831	0RD1001F609	1K OHM 1/6 W 5% TA52
R832	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R833	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R834	0RD7500F609	750 OHM 1/6 W 5% TA52
R835	0RD9100F609	910 OHM 1/6 W 5.00% TA52
R837	0RD2201F609	2.2K OHM 1/6 W 5.00% TA52
R839	0RD1501F609	1.5K OHM 1/6 W 5% TA52
R840	0RD1002F609	10K OHM 1/6 W 5% TA52
R851	0RD9100F609	910 OHM 1/6 W 5.00% TA52
R861	180-777H	RWR 7W 910 J VERT

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RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
R871	0RD4302F609	43K OHM 1/6 W 5.00% TA52
R872	0RD5602F609	56K OHM 1/6 W 5% TA52
R887	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R891	0RN1201F409	1.2K OHM 1/6 W 1.00% TA52
R892	0RN1801F409	1.8K OHM 1/6 W 1.00% TA52
R893	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R894	0RD2001F609	2K OHM 1/6 W 5% TA52
R895	0RD4701F609	4.7K OHM 1/6 W 5% TA52
R897	0RS3301K607	3.3K OHM 2 W 5.00% TA62
R898	0RS3301K607	3.3K OHM 2 W 5.00% TA62
R899	0RS0161K607	1.6 OHM 2 W 5.00% TA62
R901	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R901B	0RD1000F609	100 OHM 1/6 W 5% TA52
R901G	0RD1000F609	100 OHM 1/6 W 5% TA52
R901R	0RD1000F609	100 OHM 1/6 W 5% TA52
R902	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R902B	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R902G	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R902R	0RD5101F609	5.1K OHM 1/6 W 5.00% TA52
R903	0RD1200F609	120 OHM 1/6 W 5.00% TA52
R903B	0RN3001F409	3K OHM 1/6 W 1.00% TA52
R903G	0RN3001F409	3K OHM 1/6 W 1.00% TA52
R903R	0RN3001F409	3K OHM 1/6 W 1.00% TA52
R904	0RD1002F609	10K OHM 1/6 W 5% TA52
R904B	0RD6200F609	620 OHM 1/6 W 5.00% TA52
R904G	0RD6200F609	620 OHM 1/6 W 5.00% TA52
R904R	0RD6200F609	620 OHM 1/6 W 5.00% TA52
R905	0RD2200F609	220 OHM 1/6 W 5.00% TA52
R905	0RD4700F609	470 OHM 1/6 W 0.05 TA52
R905B	0RD0102F609	10 OHM 1/6 W 5% TA52
R905G	0RD0102F609	10 OHM 1/6 W 5% TA52
R905R	0RD0102F609	10 OHM 1/6 W 5% TA52
R906	0RD0622F609	62 OHM 1/6 W 5.00% TA52
R906B	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R906G	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R906R	0RD2701F609	2.7K OHM 1/6 W 5% TA52
R907	0RD1001F609	1K OHM 1/6 W 5% TA52
R907B	0RD1203F609	120K OHM 1/6 W 5.00% TA52
R907G	0RD1203F609	120K OHM 1/6 W 5.00% TA52
R907R	0RD1203F609	120K OHM 1/6 W 5.00% TA52
R908	0RD0472F609	47 OHM 1/6 W 5% TA52
R908B	0RD1001F609	1K OHM 1/6 W 5% TA52
R908G	0RD1001F609	1K OHM 1/6 W 5% TA52
R908R	0RD1001F609	1K OHM 1/6 W 5% TA52
R909B	0RS4702K607	47K OHM 2 W 5.00% TA62
R909G	0RS4702K607	47K OHM 2 W 5.00% TA62
R909R	0RS4702K607	47K OHM 2 W 5.00% TA62
R910B	180-C02P	220OHM 1/2 W 5% TA52
R910G	180-C02P	220OHM 1/2 W 5% TA52
R910R	180-C02P	220OHM 1/2 W 5% TA52
R911	0RS4700K607	470 OHM 2 W 5.00% TA62

LOCA. NO	PART NO	DESCRIPTION
R911B	0RD1002H609	10K OHM 1/2 W 5.00% TA52
R911G	0RD1002H609	10K OHM 1/2 W 5.00% TA52
R911R	0RD1002H609	10K OHM 1/2 W 5.00% TA52
R912	0RS4700K607	470 OHM 2 W 5.00% TA62
R912B	0RD1004H609	1M OHM 1/2 W 5.00% TA52
R912G	0RD1004H609	1M OHM 1/2 W 5.00% TA52
R912R	0RD1004H609	1M OHM 1/2 W 5.00% TA52
R913	0RS4700K607	470 OHM 2 W 5.00% TA62
R913B	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
R913G	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
R913R	0RF0470H609	0.47 OHM 1/2 W 5.00% TA52
R914B	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR(METAL GLAZED TYPE)
R914G	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR(METAL GLAZED TYPE)
R914R	0RKZVTA001K	0.47M OHM 1/2 W 5% TA52 PILKOR(METAL GLAZED TYPE)
R915B	0RD1003H609	100K OHM 1/2 W 5.00% TA52
R915G	0RD1003H609	100K OHM 1/2 W 5.00% TA52
R915R	0RD1003H609	100K OHM 1/2 W 5.00% TA52
R916B	0RD3900F609	390 OHM 1/6 W 5% TA52
R916G	0RD3900F609	390 OHM 1/6 W 5% TA52
R916R	0RD3900F609	390 OHM 1/6 W 5% TA52
R918G	0RD1002F609	10K OHM 1/6 W 5% TA52
R919B	0RD6201F609	6.2K OHM 1/6 W 5.00% TA52
R919G	0RD6201F609	6.2K OHM 1/6 W 5.00% TA52
R919R	0RD6201F609	6.2K OHM 1/6 W 5.00% TA52
R920B	0RD1101F609	1.1K OHM 1/6 W 5.00% TA52
R920G	0RD1101F609	1.1K OHM 1/6 W 5.00% TA52
R920R	0RD1101F609	1.1K OHM 1/6 W 5.00% TA52
R921B	0RD2001F609	2K OHM 1/6 W 5% TA52
R921G	0RD2001F609	2K OHM 1/6 W 5% TA52
R921R	0RD2001F609	2K OHM 1/6 W 5% TA52
R922B	0RF0102K607	10 2W 5% TA62
R922G	0RF0102K607	10 2W 5% TA62
R922R	0RF0102K607	10 2W 5% TA62
R923B	0RCZVTA002E	4.7K OHM 1/2 W 10% TA52 .
R923G	0RCZVTA002E	4.7K OHM 1/2 W 10% TA52 .
R923R	0RCZVTA002E	4.7K OHM 1/2 W 10% TA52 .
R925B	0RD1002F609	10K OHM 1/6 W 5% TA52
R925G	0RD1002F609	10K OHM 1/6 W 5% TA52
R926B	180-C02P	220OHM 1/2 W 5% TA52
R926B	180-C02Q	330OHM 1/2 W 5% TA52
R926G	180-C02P	220OHM 1/2 W 5% TA52
R926G	180-C02Q	330OHM 1/2 W 5% TA52
R926R	180-C02P	220OHM 1/2 W 5% TA52
R926R	180-C02Q	330OHM 1/2 W 5% TA52
RT01	0RD1002F609	10K OHM 1/6 W 5% TA52
RT01	0RD8200F609	820 OHM 1/6 W 5.00% TA52
RT02	0RD1002F609	10K OHM 1/6 W 5% TA52
RT03	0RD4700F609	470 OHM 1/6 W 0.05 TA52
RT04	0RD4700F609	470 OHM 1/6 W 0.05 TA52
RT05	0RD1002F609	10K OHM 1/6 W 5% TA52
RT05	0RD4700F609	470 OHM 1/6 W 0.05 TA52

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;	CC, CX, CK, CN : Ceramic CQ : Polyestor CE : Electrolytic	RD : Carbon Film RS : Metal Oxide Film RN : Metal Film RF : Fusible

LOCA. NO	PART NO	DESCRIPTION
RT07	0RD1000F609	100 OHM 1/6 W 5% TA52
RT08	0RD1000F609	100 OHM 1/6 W 5% TA52
RT09	0RD1000F609	100 OHM 1/6 W 5% TA52
RT10	0RD1000F609	100 OHM 1/6 W 5% TA52
RT11	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT12	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT13	0RD1000F609	100 OHM 1/6 W 5% TA52
RT14	0RD1000F609	100 OHM 1/6 W 5% TA52
RT15	0RD1000F609	100 OHM 1/6 W 5% TA52
RT16	0RD1000F609	100 OHM 1/6 W 5% TA52
RT17	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT18	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT19	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT20	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT21	0RD4701F609	4.7K OHM 1/6 W 5% TA52
RT22	0RD1000F609	100 OHM 1/6 W 5% TA52
RX644	180-777H	RWR 7W 910 J VERT
VR401	0RV1103D550	10K OHM 6 AG L3P5, 2.5 -

SPARK

LOCA. NO	PART NO	DESCRIPTION
SG401	6918VAX002B	SPARK, SSA-102N-A1 1000V 30% 5MM AXIAL TP
SG402	6918VAX002B	SPARK, SSA-102N-A1 1000V 30% 5MM AXIAL TP
SG901B	6918VAX002D	SPARK, WSP-301M 300V 20% AXIAL TYPE 5MM
SG901G	6918VAX002D	SPARK, WSP-301M 300V 20% AXIAL TYPE 5MM
SG901R	6918VAX002D	SPARK, WSP-301M 300V 20% AXIAL TYPE 5MM
SG902B	6918VAX002B	SPARK, SSA-102N-A1 1000V 30% 5MM AXIAL TP
SG902G	6918VAX002B	SPARK, SSA-102N-A1 1000V 30% 5MM AXIAL TP
SG902R	6918VAX002B	SPARK, SSA-102N-A1 1000V 30% 5MM AXIAL TP
SG903B	6918VAX002D	SPARK, WSP-301M 300V 20% AXIAL TYPE 5MM
SG903G	6918VAX002D	SPARK, WSP-301M 300V 20% AXIAL TYPE 5MM
SG903R	6918VAX002D	SPARK, WSP-301M 300V 20% AXIAL TYPE 5MM

SWITCH

LOCA. NO	PART NO	DESCRIPTION
SW800	140-289A	SWITCH,PUSH POWER SDDF3PASP013 LG C&D UL/C
SWT01	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON
SWT02	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON
SWT03	140-313B	SWITCH,TAC 2LEAD 160G(TA) LG C&D NON
SWT04	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON
SWT05	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON
SWT06	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON
SWT07	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON
SWT08	140-313B	SWITCH,TACT 2LEAD 160G(TA) LG C&D NON

FILTER & CRYSTAL

LOCA. NO	PART NO	DESCRIPTION
FB2005	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB2006	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB2007	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB2008	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB2009	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB2010	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB2011	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING

LOCA. NO	PART NO	DESCRIPTION
FB401	125-123A	FILTER(CIRC),EMCFERRITE BFD3565R2F(TAPING)
FB402	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB403	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB801	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB802	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB803	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB805	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB841	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB851	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB852	125-123A	FILTER(CIRC),EMCFERRITE BFD3565R2F(TAPING)
FB861	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB871	125-123A	FILTER(CIRC),EMCFERRITE BFD3565R2F(TAPING)
FB872	125-123A	FILTER(CIRC),EMCFERRITE BFD3565R2F(TAPING)
FB881	125-123A	FILTER(CIRC),EMCFERRITE BFD3565R2F(TAPING)
FB882	125-123A	FILTER(CIRC),EMCFERRITE BFD3565R2F(TAPING)
FB891	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB892	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB901B	125-123A	FILTER(CIRC),EMCFERRITE BFD3565R2F(TAPING)
FB901G	125-123A	FILTER(CIRC),EMCFERRITE BFD3565R2F(TAPING)
FB901R	125-123A	FILTER(CIRC),EMCFERRITE BFD3565R2F(TAPING)
FB905B	125-123A	FILTER(CIRC),EMCFERRITE BFD3565R2F(TAPING)
FB905G	125-123A	FILTER(CIRC),EMCFERRITE BFD3565R2F(TAPING)
FB905R	125-123A	FILTER(CIRC),EMCFERRITE BFD3565R2F(TAPING)
FB931	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB932	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB933	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB934	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB935	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
FB936	125-022K	FILTER(CIRC),EMCFERRITE 1UH TAPING
L01	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L101	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L106	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L108	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L117	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L2007	6210TCT002B	FILTER(CIRC),EMC ACB2012M-300-T TDK , CHIP BEAD,LCD
L2008	6210TCT002B	FILTER(CIRC),EMC ACB2012M-300-T TDK , CHIP BEAD,LCD
L2009	6210TCT002B	FILTER(CIRC),EMC ACB2012M-300-T TDK , CHIP BEAD,LCD
L2010	6210TCT002B	FILTER(CIRC),EMC ACB2012M-300-T TDK , CHIP BEAD,LCD
L2011	6210TCT002B	FILTER(CIRC),EMC ACB2012M-300-T TDK , CHIP BEAD,LCD
L2012	6210TCT002B	FILTER(CIRC),EMC ACB2012M-300-T TDK , CHIP BEAD,LCD
L2013	6210TCT002B	FILTER(CIRC),EMC ACB2012M-300-T TDK , CHIP BEAD,LCD
L2014	6210TCT002B	FILTER(CIRC),EMC ACB2012M-300-T TDK , CHIP BEAD,LCD
L2018	6210TCT002B	FILTER(CIRC),EMC ACB2012M-300-T TDK , CHIP BEAD,LCD
L2021	6210TCT002B	FILTER(CIRC),EMC ACB2012M-300-T TDK , CHIP BEAD,LCD
L2027	125-022K	FILTER(CIRC),EMC FERRITE 1UH TAPING
L2028	6210TCT002B	FILTER(CIRC),EMC ACB2012M-300-T TDK , CHIP BEAD,LCD
L205	6210TCT002B	FILTER(CIRC),EMC ACB2012M-300-T TDK , CHIP BEAD,LCD
L206	6210TCT002B	FILTER(CIRC),EMC ACB2012M-300-T TDK , CHIP BEAD,LCD
L206	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L260	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L262	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP

LOCA. NO	PART NO	DESCRIPTION
L263	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L264	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L266	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L267	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L268	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L269	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L270	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L600	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L601	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L608	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L609	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L610	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L700	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L701	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
L81A	150-F06T	FILTER(CIRC),EMCSQE3535 20MH PHY TURN
L81B	150-F06T	FILTER(CIRC),EMCSQE3535 20MH PHY TURN
L81C	150-F06T	FILTER(CIRC),EMCSQE3535 20MH PHY TURN
LX100	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
LX105	6210VC0006A	FILTER, FBMH3216 HM501NT 3.2X1.6X1.6MM R/TP
X01	156-A01L	RESONATOR,CRYSTA LHC49U 6.000MHZ 30PPM 16PF BK
X260	6202VDB007B	RESONATOR,CRYSTAL HC49U 20.250MHZ 30PPM 13PF BK
X261	166-E02F	RESONATOR,CERAMIC CSB500F9 500KHZ BK
X262	156-A01E	RESONATOR,CRYSTAL HC49U4.000MHZ 30PPM 15PF BK
X500	6212BA2002C	RESONATOR,CERAMIC 2.69MHZ +/- 15 PPM BULK
X600	156-A02R	RESONATOR,CRYSTAL HC49U 18.432MHZ 30PPM 16PF BK

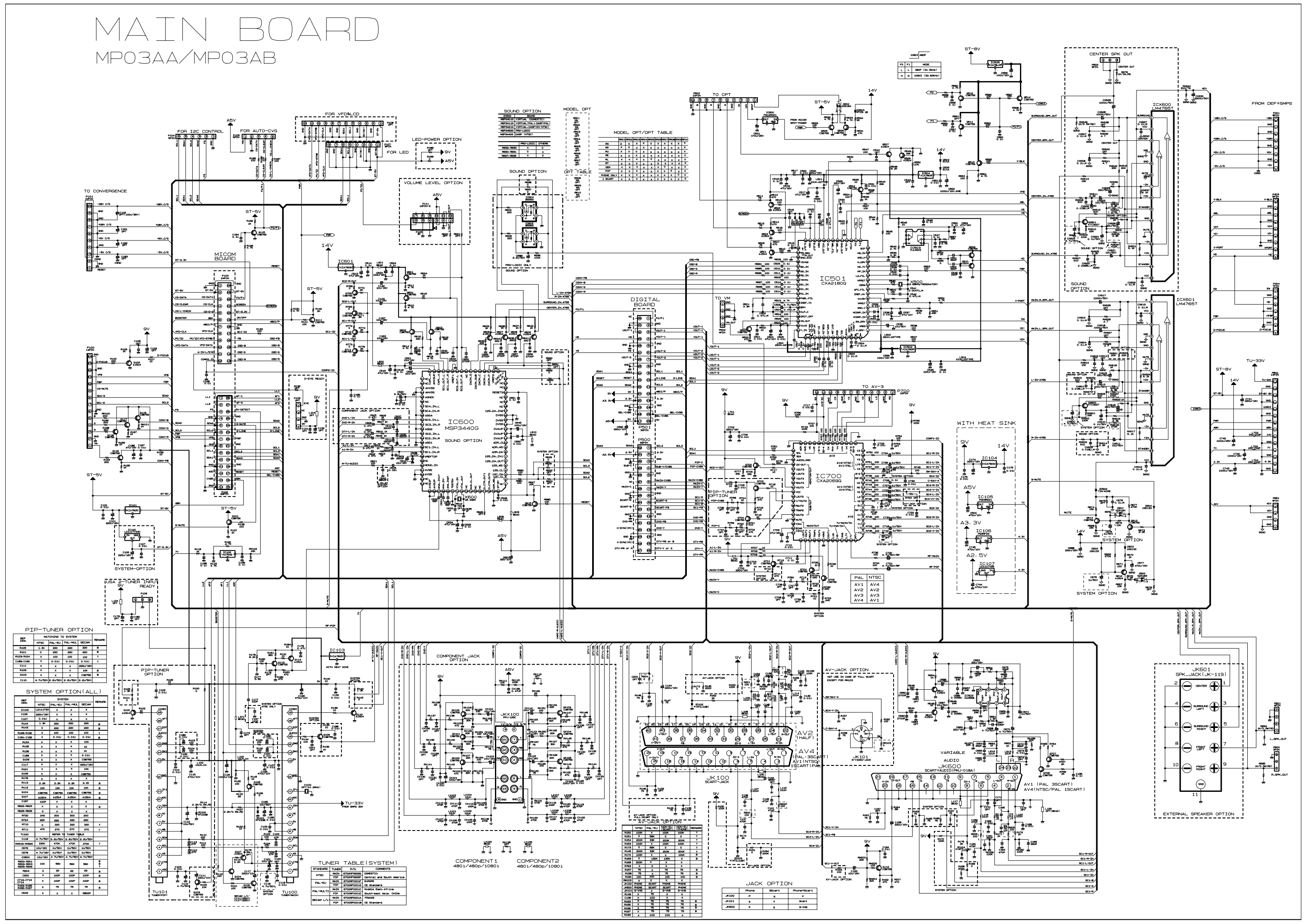
ACCESSORIES

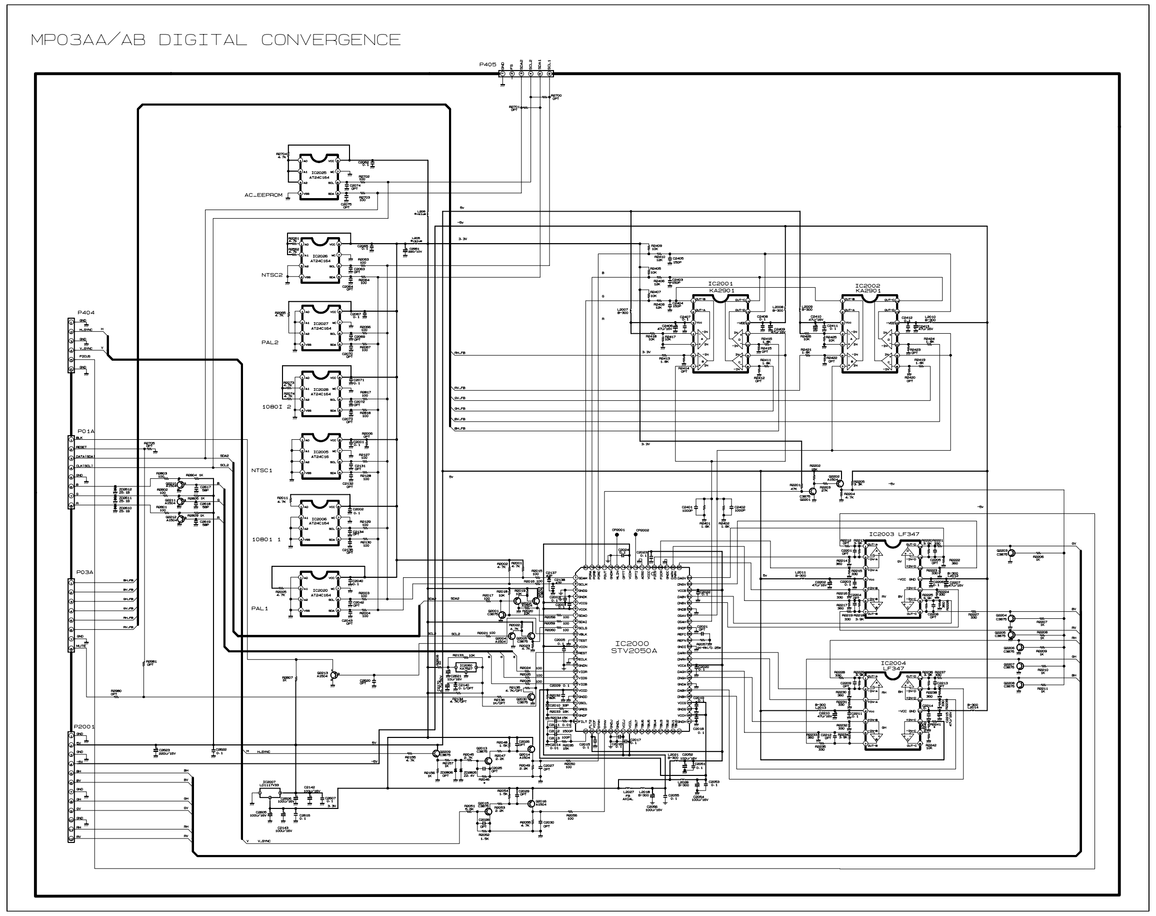
LOCA. NO	PART NO	DESCRIPTION
A1	3828VA0408B	MANUAL,OWNERS MP03AB DG/BN LG GE/EN, FR/NE
A1	3828VA0408C	MANUAL,OWNERS MP03AB HS LG GR
A1	3828VA0408F	MANUAL,OWNERS MP03AB IS/REG LG IT
A1	3828VA0408J	MANUAL,OWNERS MP03AB FS LG FR
A1	3828VA0408K	MANUAL,OWNERS MP03AB SW LG DA/SW, NO/FI
A2	6710V00100R	REMOTE CONTROLLER, MP03AB 47KEY

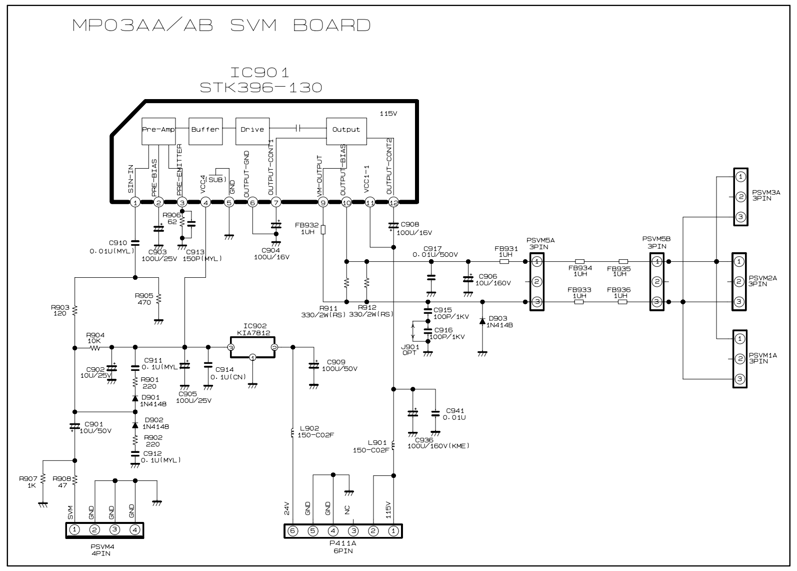
MISCELLANEOUS

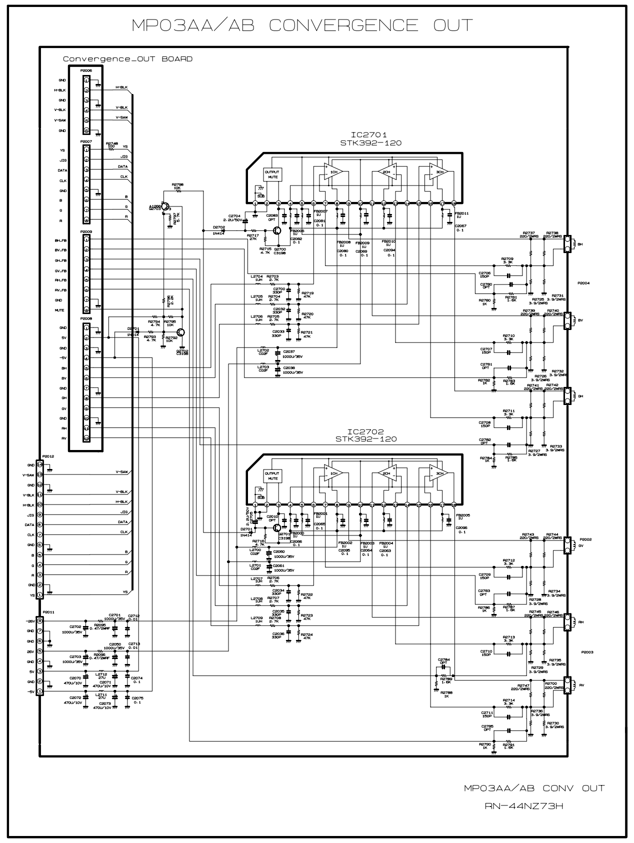
LOCA. NO	PART NO	DESCRIPTION
F800	0FS5001B51D	FUSE,SLOW BLOW 5000MA 250 V 5.2X20
IC07	6620F00015A	SOCKET(CIRC),IC D-PLCC-32-B-T REXCONN 2.54MM 32PIN
NTC80A	163-048D	THERMISTOR KL15L2R5 SSANSHIN +/- 15% 125V
NTC80B	163-048D	THERMISTOR KL15L2R5 SSANSHIN +/- 15% 125V
PA01P	6726VH0001A	REMOTE CONTROLLER RECEIVER, TSOP1238RF1
SK901B	381-226L	SOCKET (CIRC), CPT PCS628-03L(W/BAND)100K OHM 9PIN
SK901G	381-226L	SOCKET (CIRC), CPT PCS628-03L(W/BAND)100K OHM. 9PIN
SK901R	381-226L	SOCKET (CIRC), CPT PCS628-03L(W/BAND)100K OHM 9PIN
T403	6174V-5007A	FBT, 6174Z-6500A 44 JW 6174Z-6400B VE
TU100	6700MF0001F	TUNER, TAUD-M
TU100	6700SP0001A	TUNER, TAUL-S210D LG INOTEK SECAM L/L &
TU101	6700MF0001G	TUNER, TAFD-M231P LG MULTI FS 3SYS,SUB
TU101	6700SP0001B	TUNER, TAFL-S211P LG INOTEK NTSC M/N &
VA800	164-003D	VARISTOR, SVC561D-14A ILJIN 560V 10% UL/CSA/VDE BK
VA81B	164-003D	VARISTOR, SVC561D-14A ILJIN 560V 10% UL/CSA/VDE BK

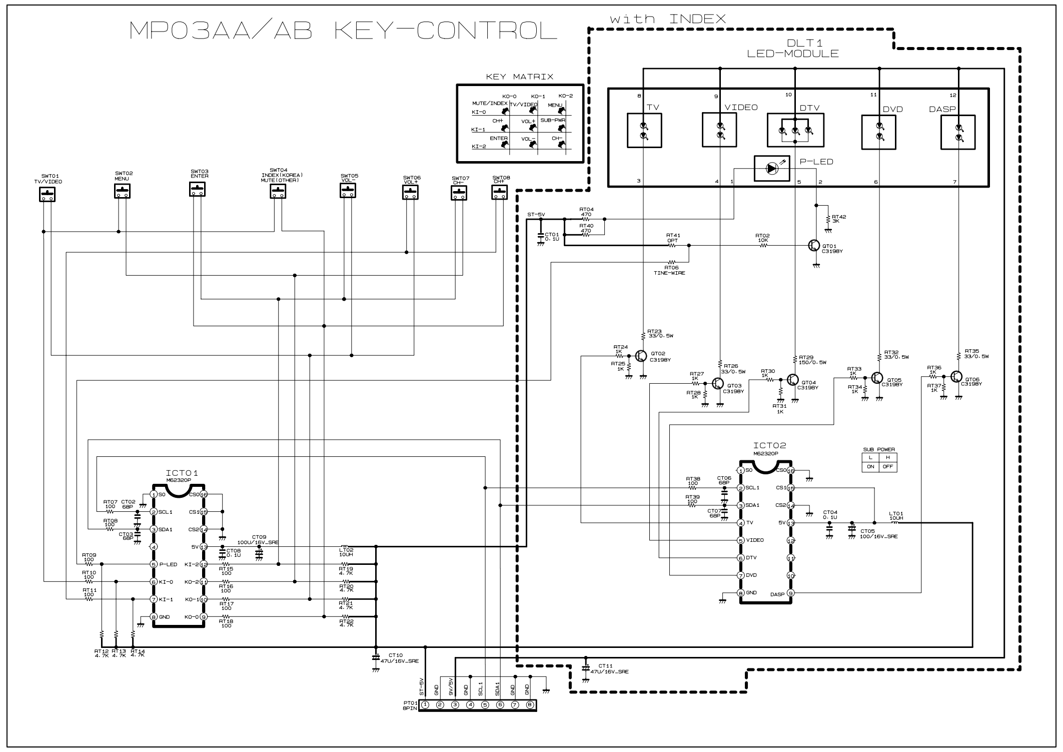
LOCA. NO	PART NO	DESCRIPTION

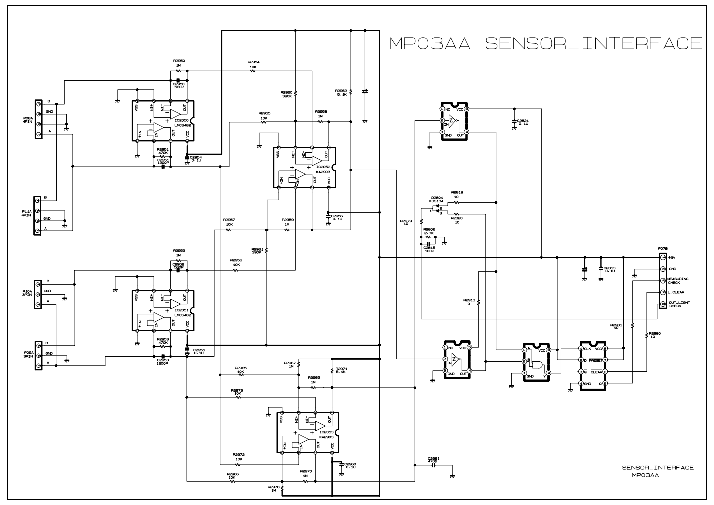

MAIN BOARD
MP03AA/MP03AB
MICOM BOARD
IC600
MSP3440G
SOUND OPTION
IC501
DIGITAL BOARD
IC700
WITH HEAT SINK
PIP-TUNER OPTION
SYSTEM OPTION(ALL)
TUNER TABLE(SYSTEM)
COMPONENT JACK OPTION
COMPONENT1
COMPONENT2
JACK OPTION
AV-JACK OPTION
EXTERNAL BREAKER OPTION
SYSTEM OPTION
TO OPT
TO AV-3
FROM DEFTOHPS
TO CONVERGENCE


MP03AA/AB DIGITAL CONVERGENCE
P405
P404
P01A
P03A
P2001
AC_EEPROM
NTSC2
PAL2
IDBOI 2
NTSC1
IDBOI 1
PAL1
IC2001
IC2002
IC2003 LF347
IC2004 LF347
IC2000
STV2050A

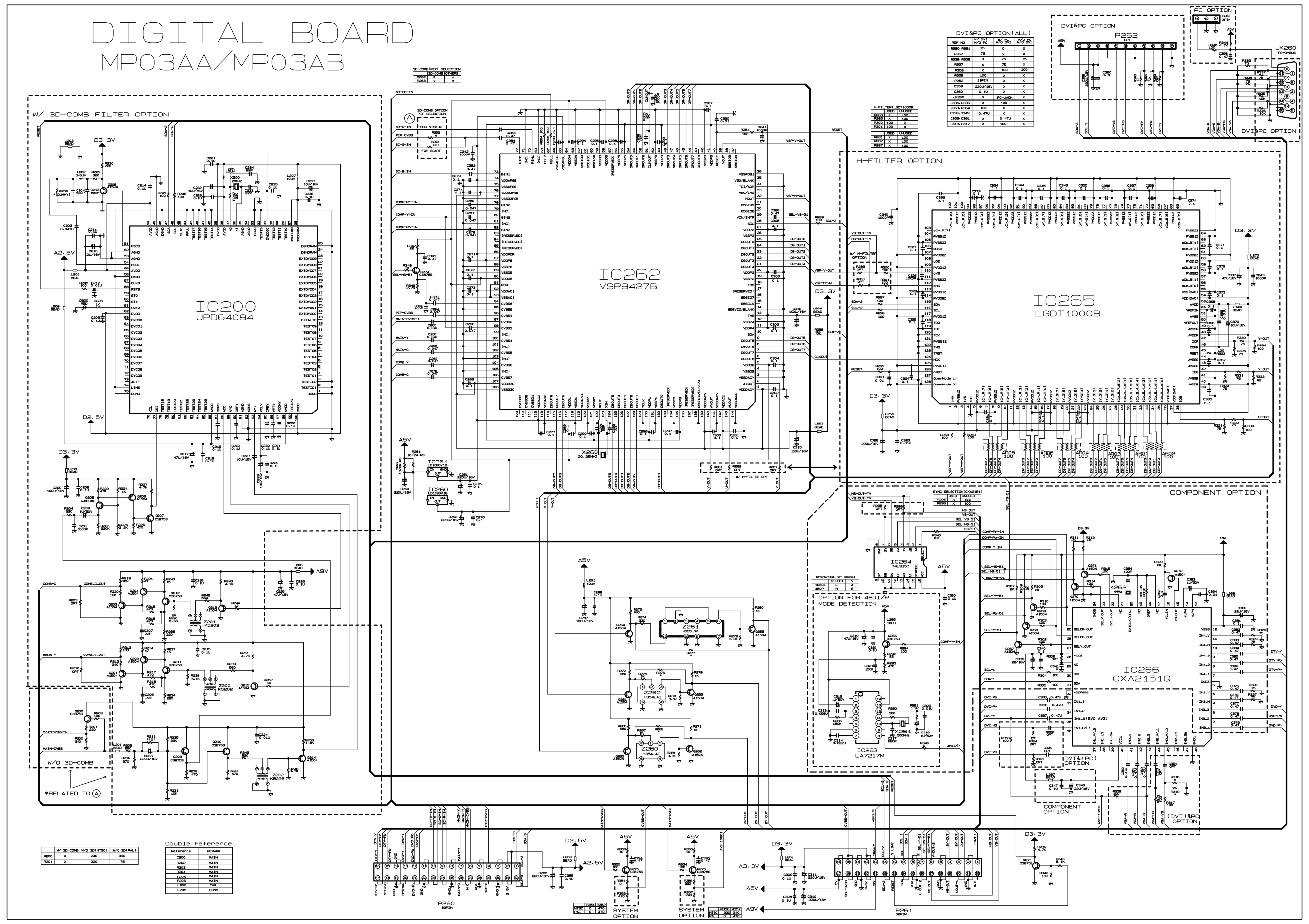

MP03AA/AB SVM BOARD
IC901
STK396-130
Pre-amp
Buffer
Drive
Output
115V
C910
0.01U(MYL)
C903
100U/25V
C913
150P(MYL)
R906
62
FB932
1UH
C904
100U/16V
C908
100U/16V
FB931
1UH
C917
0.01U/500V
FB934
1UH
FB935
1UH
FB933
1UH
FB936
1UH
C906
10U/160V
C915
100P/1KV
C916
100P/1KV
D903
1N4148
R903
120
R905
470
R904
10K
C902
10U/25V
C911
0.1U(MYL)
R901
220
D901
1N4148
D902
1N4148
R902
220
C912
0.1U(MYL)
C901
10U/50V
C905
100U/25V
C914
0.1U(CN)
IC902
KIA7812
C909
100U/50V
L902
150-C02F
L901
150-C02F
C935
100U/160V(KME)
C941
0.01U
R911
330/2W(RS)
R912
330/2W(RS)
R907
1K
R908
47
PSVM5A
3PIN
PSVM5B
3PIN
PSVM3A
3PIN
PSVM2A
3PIN
PSVM1A
3PIN
PSVM4
4PIN
P411A
6PIN
24V
GND
NC
115V

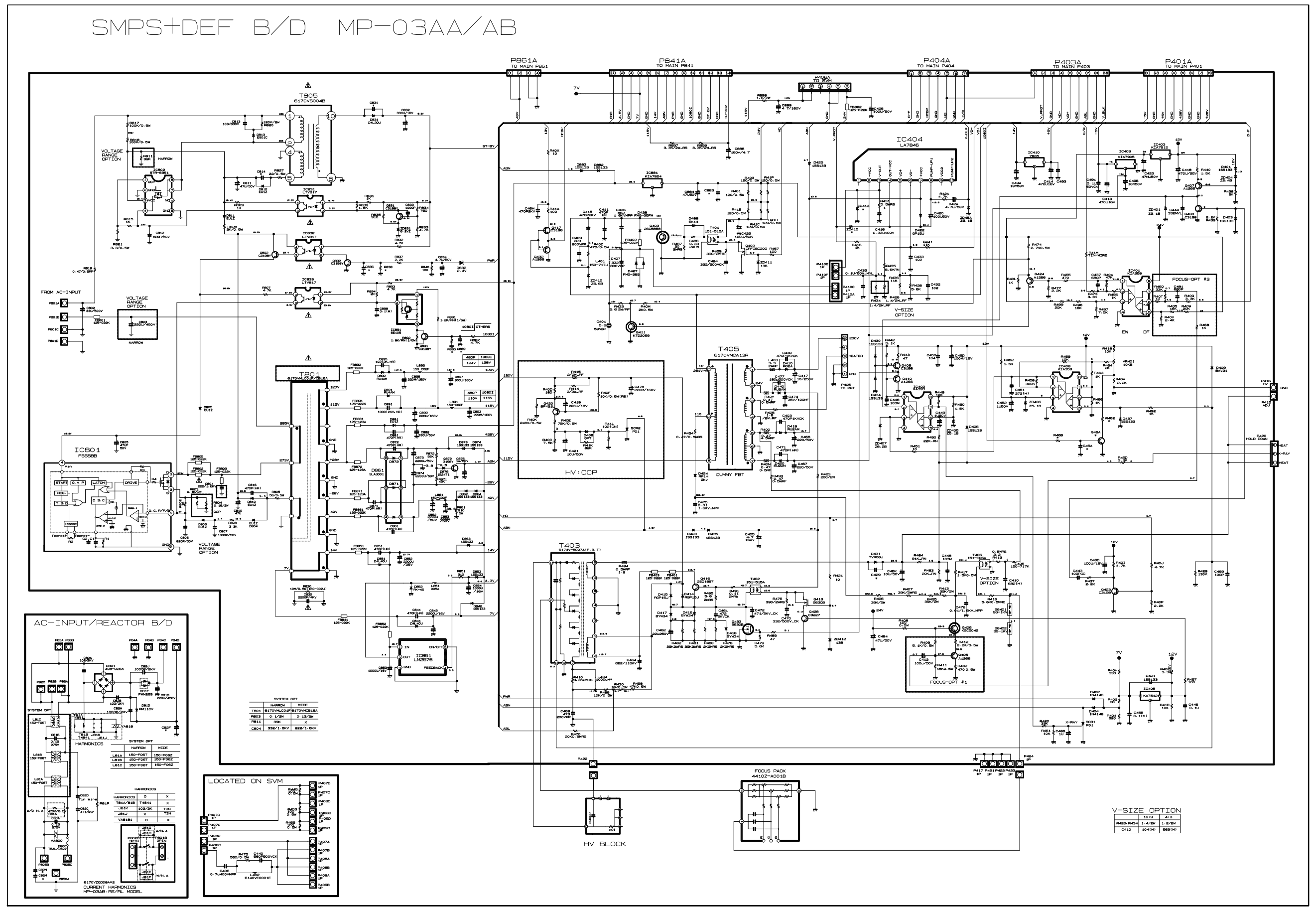

MP03AA/AB CONVERGENCE OUT
Convergence_OUT BOARD
IC2701
STK392-120
IC2702
STK392-120
MP03AA/AB CONV OUT
RN-44NZ73H

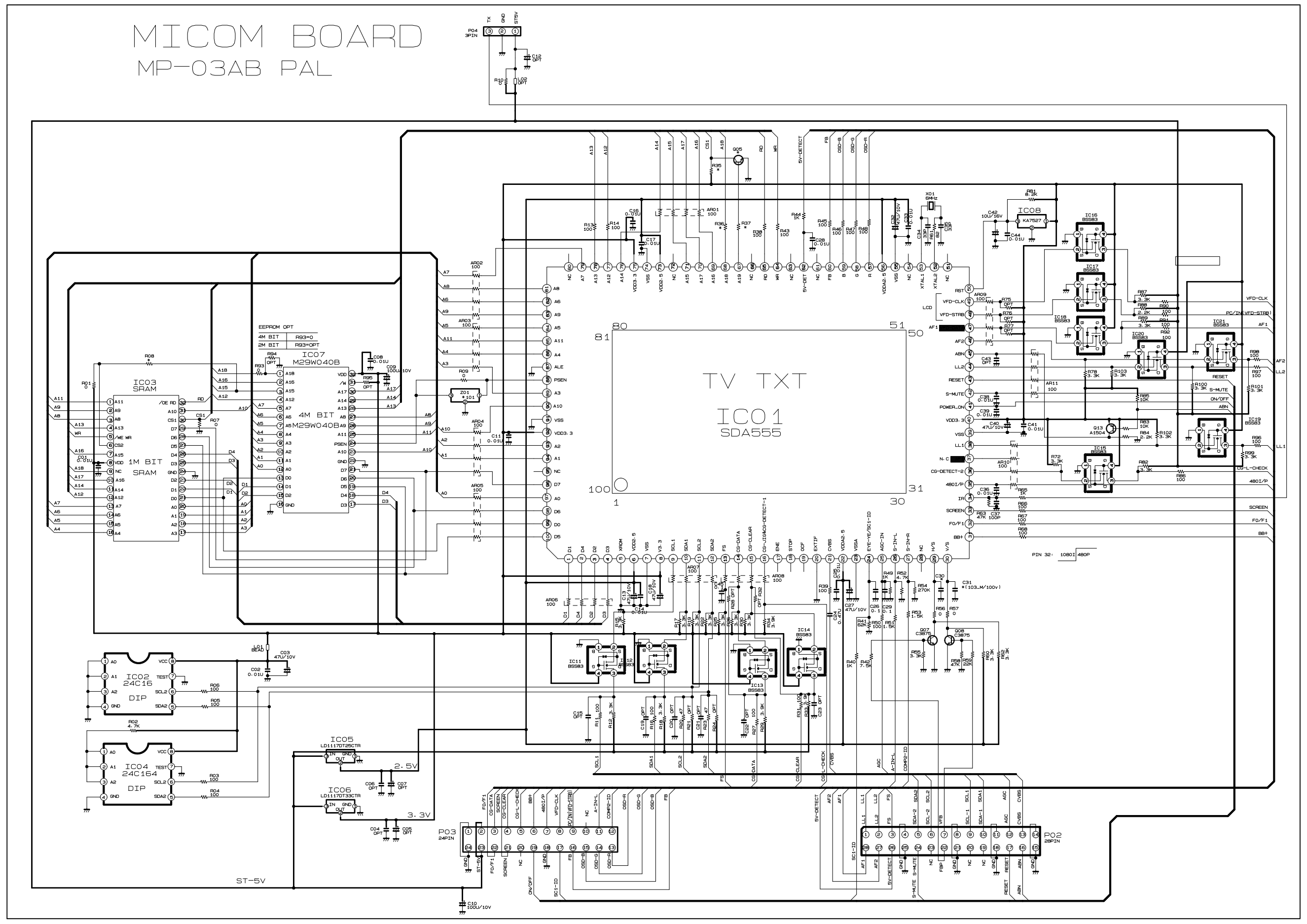

MP03AA/AB KEY-CONTROL
with INDEX
DLT1
LED-MODULE
KEY MATRIX
TV
VIDEO
DTV
DVD
DASP
P-LED
SW701
SW702
SW703
SW704
SW705
SW706
SW707
SW708
IC701
IC702
SUB POWER

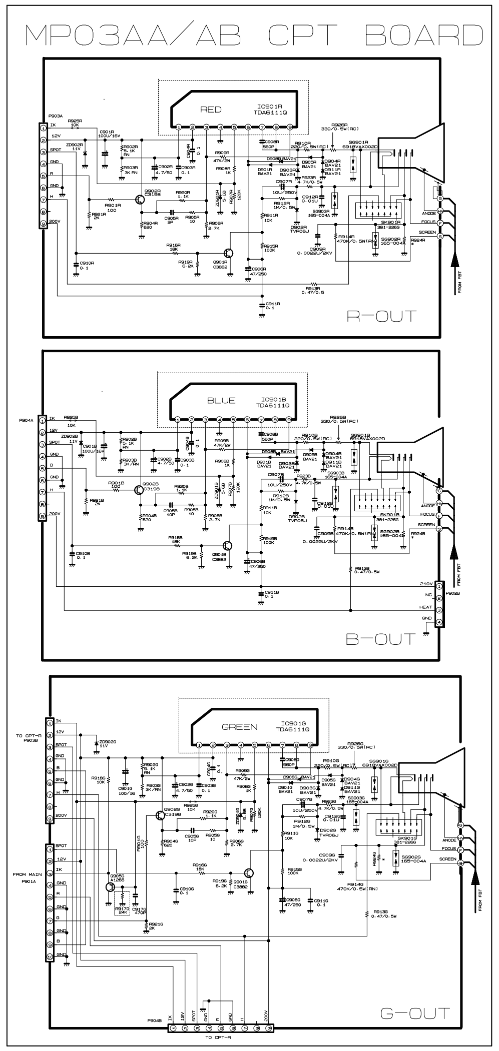

MP03AA SENSOR_INTERFACE
SENSOR_INTERFACE
MP03AA

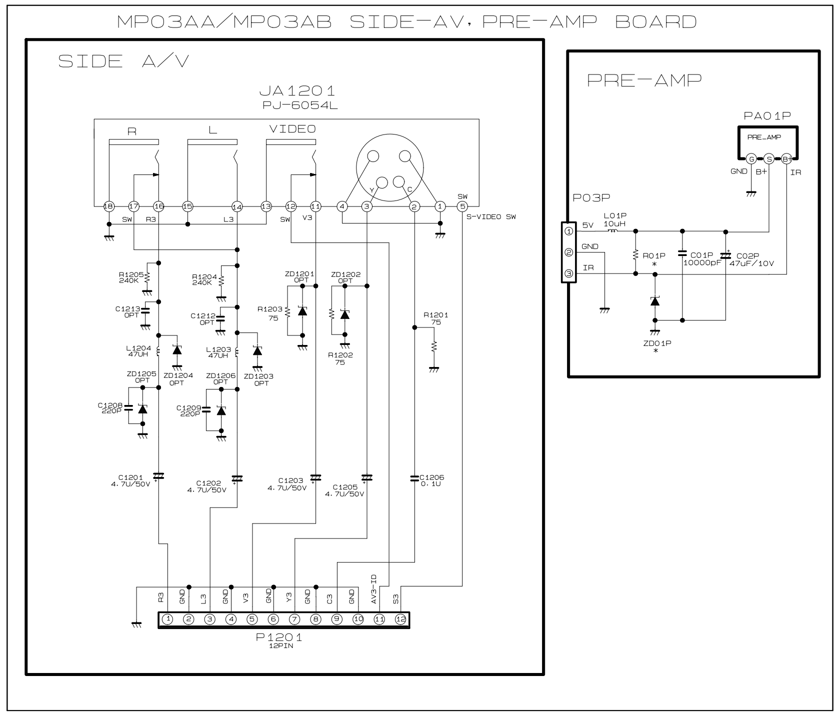
P/NO: 3854VA0124A - S1(1/2)
2003.7.22


DIGITAL BOARD
MP03AA/MP03AB
W/ 3D-COMB FILTER OPTION
IC200
UPD64084
IC262
VSP9427B
H-FILTER OPTION
IC265
LGDT1000B
COMPONENT OPTION
IC266
CXA2151Q
IC263
LA7217M
DVI&PC OPTION
P262
A/D 3D-COMB
Double Reference
P260
P261


SMPS+DEF B/D MP-03AA/AB
T805
IC404
T405
T801
IC801
HV-OCP
T403
FOCUS PACK
HV BLOCK
V-SIZE OPTION
AC-INPUT/REACTOR B/D
LOCATED ON SVM


MICOM BOARD
MP-03AB PAL
TV TXT
IC01
SDA555
IC03
SRAM
1M BIT
IC07
M29W040B
4M BIT
IC02
24C16
DIP
IC04
24C164
IC05
IC06
2.5V
3.3V
ST-5V
P03
P02


MP03AA/AB CPT BOARD
RED
IC901R
TDA6111Q
R-OUT
BLUE
IC901B
TDA6111Q
B-OUT
GREEN
IC901G
TDA6111Q
G-OUT


MP03AA/MP03AB SIDE-AV. PRE-AMP BOARD
SIDE A/V
JA1201
PJ-6054L
R
L
VIDEO
S-VIDEO SW
R1205
240K
R1204
240K
ZD1201
OPT
ZD1202
OPT
C1212
OPT
C1213
OPT
R1203
75
R1201
75
R1202
75
L1204
47UH
L1203
47UH
ZD1205
OPT
ZD1204
OPT
ZD1206
OPT
ZD1203
OPT
C1208
220P
C1209
220P
C1201
4.7U/50V
C1202
4.7U/50V
C1203
4.7U/50V
C1205
4.7U/50V
C1206
0.1U
P1201
12PIN
PRE-AMP
PA01P
PRE_AMP
GND
B+
IA
P03P
5V
GND
IA
L01P
10UH
R01P
C01P
10000PF
C02P
47UF/10V
ZD01P

P/NO: 3854VA0124A - S1(2/2)
2003.7.22

SVC. SHEET : 3854VA0124A-S1

LG Electronics Inc.

P/NO : 3828VD0136D

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